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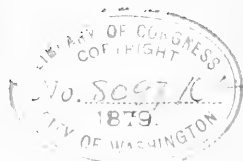
PRESENTED TO

TEACHER

AN
ILLUSTRATED CATALOGUE
OF
SCHOOL MERCHANDISE.

*DESKS, CHAIRS, GLOBES, BLACKBOARDS, ERASERS,
TELLURIANS, BOOK CASES, PAPER, MOTTOES,
PENS, CRAYONS, SLATES, SLATE PENCILS,
MAGNETS, MEDALS, BOOK COVERS,
BOOKS, REWARD CARDS, BELLS,
CLOCKS, KINDERGARTEN,
GYMNASTICS, INK,
LEAD PENCILS,
Etc., Etc.*

✓
BAKER, PRATT & CO.,
" 142 and 144 Grand Street,
NEW YORK.



L.P. 1879

Remarks.

We are prepared to fill orders for **everything in the Book and Stationery line, as well as for all kinds of School Supplies.**

Great care ought to be taken in sending orders; the full *name* and *address* should be specified, and the name of Town, County and State legibly written.

Remittances may be made by draft or post-office money order drawn in our favor, payable in this city. Letters containing *money* should be *registered* to insure safe delivery.

In the event of credit being desired, it will be necessary when sending an order—if the customer's name is not already on our books—to furnish us with references as to responsibility; we shall in such instances, when the references are satisfactory, be pleased to allow thirty days' time on any goods that may be selected.

We send all packages by express, unless the purchaser requests them to be sent by mail or otherwise.

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Merchandise in parcels weighing four pounds or under can be transmitted through the mails at the rate of one cent per ounce. Books can be sent at the rate of one cent for two ounces, or fractional part thereof, but no writing of any kind is permitted by the post-office authorities to be enclosed.

Duplicates of this Catalogue will be furnished for twenty-five cents each. Our complete Catalogue of School Books will be furnished for five cents each.

To the Educational Public.

We take pleasure in presenting the most complete catalogue of SCHOOL MATERIAL ever offered, having spared neither time nor expense in its preparation.

Many of the engravings are entirely new and original, covering numerous articles hitherto omitted in catalogues of like character.

It is of the utmost importance that those charged with responsibility as instructors be supplied with every possible facility, such as apparatus to assist in *illustrating* and *impressing* their instruction.

Equally important it is that everything which contributes to the *cheerfulness* and *comfort* of the school-room—where so much time and effort are expended in acquiring knowledge and mental discipline—should be of the very best quality and comprise the latest improvements to be obtained, thereby producing the largest and most valuable results, making study and instruction *less* of a task and *more* of a pleasure.

It will be our aim and purpose to supply every possible want in connection with Educational requirements—from the Kindergarten to the University—by producing, perfecting, and adding to our stock of school furniture and apparatus the many improvements designed to render the training of the mental faculties more thorough, expeditious and agreeable, both to teacher and scholar, and as rapidly as their adaptation to the purpose will warrant.

Our facilities are unequaled, and we are prepared at all times to offer the most favorable inducements not only to the trade buying in large quantities, but to the school or college needing a single article.

All orders and correspondence will receive our prompt attention, and estimates will be carefully made, when desired.

BAKER, PRATT & CO.,

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NEW YORK.

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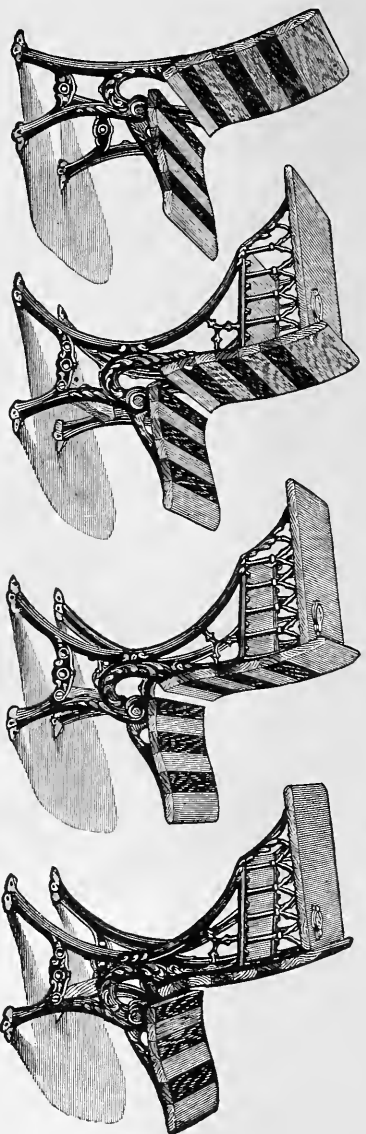
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The "Triumph" Dovetailed Desks.



AS PLACED IN THE SCHOOL ROOM.

THE HIGHEST AWARD.



PHILADELPHIA, 1876.

600,000 in Daily Use, and Every
One Satisfactory.

No other Desk has won such a Record.

THE ONLY AWARD.



PARIS, 1878.

AWARDED THE HIGHEST PREMIUM

AT THE

U. S.

Centennial Exhibition

OF 1876

FOR

"STRENGTH, DURABILITY AND GOOD FORM."

*Also at the Paris Exposition of 1878, and the only Folding
Seat Desk that received Special Mention at either.*



The Patent "Triumph" School Desk,

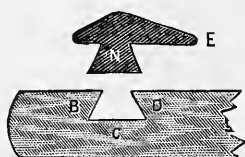
WITH FOLDING SEAT.

*Constructed on the Improved Method of Dovetailing Wood and Iron together,
and inserting continuous Steel Dowels.*

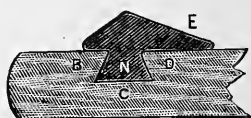
Purchasers of School Furniture will find the **Patent Dove-tailed "Triumph" Desk** the most perfect in its proportions, and much the strongest and most durable School Desk made. The seat and back are so curved as to enable the pupil to maintain an erect

and healthful posture, and to perform his work with an ease and comfort unknown in the use of chair desks, or even in most of the folding-seat desks. By our improved method of construction—the dovetail process and the use of steel wire rods inserted into the slats like continuous dowels, (see cut of desk in process of setting up) —we obtain a degree of firmness, strength and durability that is not to be equaled or approached by any other method and which *more than doubles* the value of our desks over those put together in any other way.

The "Triumph" Method of Dovetailing.



Cut No. 1.



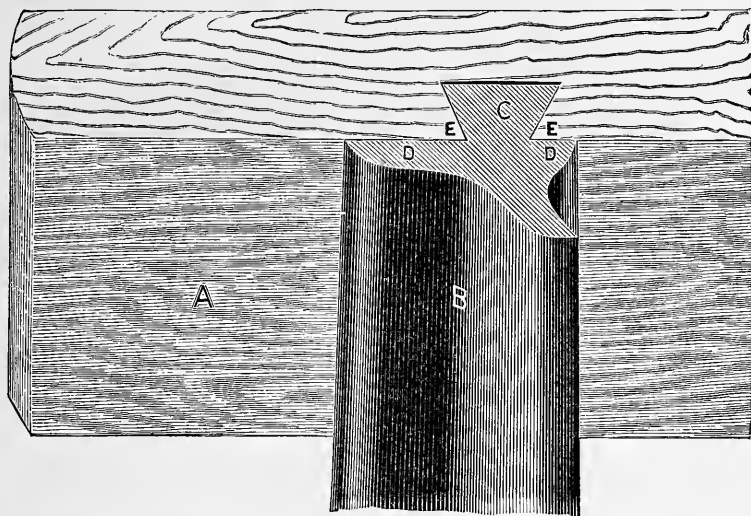
Cut No. 2.

In the first cut N represents the dovetail portion of a section of the iron frame, and B, C, D, the section of a slat showing the form of the groove—both on a reduced scale. The second cut shows the two united. The slat thus secured can *never come off nor grow loose, and is independent of any third piece (a screw) in its union with the iron*—a fact of vast importance and worthy of great consideration. By *no other method* can a perfect union of the parts be obtained. The agency of a *third or uniting part* (as screw, bolt, nut, wedge, etc.), is an element of weakness in itself, developing immediately on use and constantly increasing by continued strain, caused by the natural and proper motions of the pupil.

The dovetail portion, N, of the iron frame forms a continuous "rib" or "backbone" to the entire casting, and being in shape on the principle of the "T" rail, thereby *more than doubles its strength*. It also *penetrates the wood* in an unbroken and continuous line the *entire width* of the top, back and seat. This dovetail part of the iron, N, is one-half inch wide on its face and in length is from thirty to forty inches, according to the size of the desk. The small screws used in the ordinary method, by other manufacturers, are driven into the wood at various points and irregular intervals, and depend entirely on their narrow thread. Their combined thickness, if placed side by side, would not exceed five to six inches, and, in contrast with the length of the dovetail rib or tongue, shows at a glance the immense superiority and advantage of the latter.

The flanged portion of the iron frame, marked E, is wider than the face of most of the ordinary flat screw castings and forms a solid bearing and brace for the wood, allowing no motion whatever of the dovetailed rib, N, in its groove, C, in the wood. In the ordinary screw-fastened desks, the whole iron frame is *greatly weakened by being bored full of holes for the screws.*

In order that this method of joining the wood and iron used in the construction of the "TRIUMPH" Desk may be made perfectly clear, we have prepared the following cut, representing full-sized sections of the wooden slat and the iron frame as they appear when united.



The Combined Dovetail and Flange Fastening.

In the above illustration A represents a section of a slat, with a dovetail-shaped groove; B, a section of the iron standard, or "casting," to which the slats are fastened; C, the dovetail portion of the casting, fitting into the groove of the slats; D, D, the flanges of the casting, against which the flat side of the slat is supported; E, E, the points of the slat by which the dovetail of the casting holds it in place.

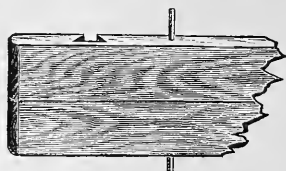
The slats are grooved a little deeper than the dovetails penetrate, and when driven on the castings, they press firmly on the flanges D, D, and the two opposite faces of the dovetail. The flanges of the casting furnish a solid bearing and brace for the slats, supporting and strengthening the sharp points E, E, so that it is impossible for them to give way or become weakened. The *combination* of these flanges with the

dovetail *more than doubles the strength and firmness of the dovetail alone*; and, as wood does not shrink endwise, *the slats thus secured never get loose but grow tighter.*

Section of the Continuous Wire Dowel.



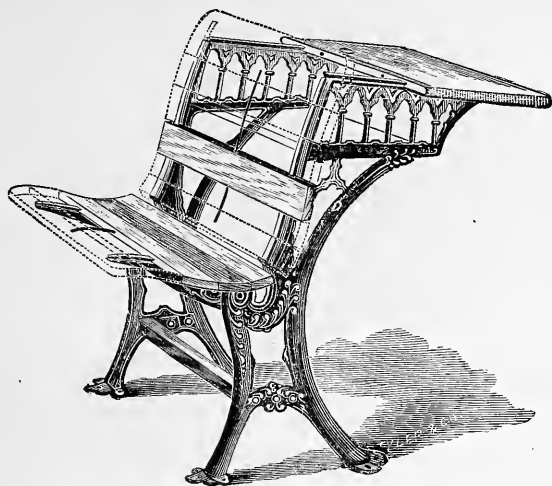
The Continuous Wire Dowels. Two of these steel wire dowels are used in the construction of each desk; one extending through the centre, down the entire width of the back, and another across the entire width of the seat. They insure an even surface of the slats, and effectually prevent them from warping, springing, or creaking. In order to preserve an even surface of the seat and back, these dowels are an *absolute necessity in both single and double desks.* This is especially true of the latter, the slats of which, owing to their greater length, have a corresponding tendency to spring and warp.



THE CONTINUOUS DOWEL.

These dowels bind firmly together all the slats in the seat, and all in the back, and, in connection with the combined dovetail and flange fastening, give the desk the same stiffness and firmness that it would have if each of these sections were made of *one solid board.*

Superiority of the "TRIUMPH" Desk over Screwed Furniture. With Screwed Furniture—no matter how firm it may appear when new—the slats soon grow loose from the motions of the pupils, in using, leaving and returning to the desk, and from the inevitable shrinking of the wood and the gradual loosening of the screws. This necessitates frequent and expensive repairs. This weakness (which becomes decidedly manifest in one or two years, if not in a few months' time) grows worse and worse, until such desks become so shaky in every joint as to be unfit for further use. But the "TRIUMPH" Desk will *always remain perfectly firm*; for the shrinking of the wood, instead of injuring it, *causes the slats to grasp the dovetails of the iron frames more tightly* and actually *increases its firmness.* **It is the only desk so constructed as to endure constant use, without repairs, and remain perfectly firm till the iron and the wood of which it is made are actually worn out. That this desk will do this we absolutely guarantee.**



The "Triumph" Desk

IN PROCESS OF SETTING UP.

The external appearance may be similar, as we know that other desks are offered for sale having much the same general appearance as the "TRIUMPH," but they are all put together by methods that lack the *vital elements of enduring strength and firmness*, which render the Dovetailed TRIUMPH Desk well nigh *indestructible* by ordinary wear and tear. It is a fact past *argument*, that the dovetail method of uniting the iron and the wood is *vastly superior to the best work which can be done* in any other manner.

The evidence that is coming in almost every day from School Committees and Teachers is abundant and conclusive, showing that desks not dovetailed require *early and frequent repairs*; while the TRIUMPH Desks, that have been in use for the same length of time, and in many instances two or three times as long, are *invariably* found to be *as firm and in as good condition as when first set up*.

The early giving out of *screwed* desks has compelled the manufacturers of that description of furniture to resort to various devices, such as *imbedding the irons into slots, increasing the width of the slats, gluing them together*, etc., vainly endeavoring to remedy the serious defects to which we have referred. Other devices, calculated to divert attention from the real difficulty, are *substituting WOODEN LEGS and ENDS for the iron frames of the desk, and attempting to inspire confidence in the doubly weak and short-lived experiment, by promising to warrant it for five years*, also cutting partial or half dovetails, and filling up the loose joint

with nuts of iron, wooden wedges, etc., etc. All these experiments are virtual confessions of the inherent weakness of *screwed* furniture, which *the patentees of the Triumph Desk detected long ago, and avoided by the only successful method yet devised.* Each and every one of these experimenters has confidently assured his customers for many years that "the screw is the only safe and sure thing." They find the facts to be against them, and now constantly ask you to buy and pay for their new and untested experiments.

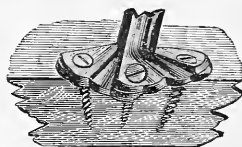
The "Triumph" Noiseless Seat Hinges. These hinges are furnished with Andrews' Patent Steel Spring Washers, which effectually hold the seats in any position, so that *they cannot fall down by their own weight and make a noise.* They have no rubber cushions to wear out, and no nuts to work loose, nor is any part liable to get out of order. Every teacher who knows from experience how soon the seat hinges in other desks become noisy will appreciate these advantages.

Experiments made in May, 1875, testing by machinery the wearing capacity of our seat hinges, prove that after being subjected to a service equal to more than *fifty years* of ordinary use in the school room, they remained absolutely *free from all rattle* when raised and lowered in the usual manner.



Adjustable Foot-Rest and Brace.

The "Triumph" Foot-Rest and Brace. This foot-rest may be placed in either of three positions, and can be changed at any time in a moment, to accommodate pupils of different height. It is secured to the cross-bars of the iron standards by bolts entering iron nuts inserted in the sockets near the ends of the foot-rest, as shown in the cut. It thus becomes a very stiff *brace*.



Foot and Floor Fastenings.

The "Triumph" Foot. In fastening the desks to the floor the screws are inserted obliquely, as shown in the cut, which gives them a much greater resisting power than if set perpendicularly.

The "Triumph" Desk has been used in thousands of school rooms, and proved to fully sustain all the claims made for it. It was first introduced to the public in 1870. It was improved and perfected in 1875. It received the only award for "strength, durability and good form," at the Centennial Exhibition, Philadelphia, 1876, and the Paris Exposition, in 1878, and was the only desk receiving special mention!

It is best liked where it has been longest used.

We offer this furniture upon its *merit*, and challenge the *world* to produce anything so nearly perfect!

Important Features of the "Triumph" Desk.

1. It is unequalled for *convenience* and *comfort*, enabling the pupil to perform his work with the least amount of fatigue, while it is stronger and will last longer than any other desk ever made!

2. The *iron* standards are *not weakened* by being bored full of screw holes, and are fifty per cent. heavier and *stronger* than their appearance indicates, as the dovetail portions are concealed in the wood. It must be obvious to all, that the dovetail shape vastly increases their strength over flat castings.

3. It has a noiseless *seat-hinge*, with no rubber cushions to wear out and cause it to rattle, and no wear on the bolt.

4. It has an adjustable *foot-rest* that may be placed in any one of three positions, to accommodate pupils of different height or length of limb. This is an inestimable benefit to the pupil, both in health and comfort, and effectually stops the noise caused by scraping feet upon the floor.

5. All sizes but the smallest two are supplied with Andrews' *Patent Non-Corrosive Ink Wells*—the *very best ever invented*. The ink-well is perfectly firm in its place, so that if a book strikes the glass underneath, the ink is not slopped out, and, at the same time, the glass can be instantly removed for filling or for washing. The ink-well cover is set into the desk in such a way that its top is even with the top of the desk.

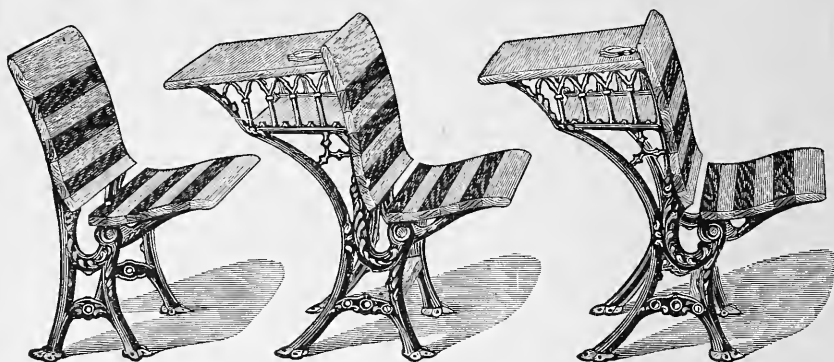
6. This desk is the *perfection* of *beauty* and elegance, in symmetry of form and style of finish. Hard woods are used exclusively, presenting the finest and most effective contrasts in color—Maple and Cherry in alternate slats are chiefly used. Ash or other woods furnished if preferred.

7. *Two* of the TRIUMPH DESKS can be set up as quickly as *one* of any desk put together with screws.

8. We are *obliged to put superior work* into these desks. The castings must be true, the wood must be carefully and accurately grooved

and fitted, and every part of the work must be done in the most perfect manner. No such accuracy is required in making screwed desks, and no such thoroughness of result can be obtained.

The leading features of this desk are controlled by ten patents.




The "Triumph" Set up in the School Room.

DIMENSIONS OF THE "TRIUMPH" DESK.

	Length.	* Height of Seat.	† Height of Top.	Width of Seat.	Extreme Width.	Age Accommodated.
Single Desks for One Pupil.						
No. 1, Normal	24 in.	16 in.	30 in.	12½ in.	34¼ in.	Adults.
" 2, High School	24 in.	15 in.	28¾ in.	12½ in.	34 in.	16 to 20 years.
" 3, Grammar	24 in.	14 in.	26¾ in.	11¾ in.	32 in.	12 to 16 "
" 4, First Intermediate ..	21 in.	13 in.	24¾ in.	10¾ in.	30 in.	10 to 13 "
" 5, Second Intermediate	18 in.	12 in.	22½ in.	9¾ in.	27 in.	8 to 11 "
" 6, Primary	18 in.	10¾ in.	20½ in.	9 in.	25 in.	5 to 9 "
Double Desks for Two Pupils.						
No. 1, Normal	42 in.	16 in.	30 in.	12½ in.	34¼ in.	Adults.
" 2, High School	42 in.	15 in.	28¾ in.	12½ in.	34 in.	16 to 20 years.
" 3, Grammar	42 in.	14 in.	26¾ in.	11¾ in.	32 in.	12 to 16 "
" 4, First Intermediate ..	42 in.	13 in.	24¾ in.	10¾ in.	30 in.	10 to 13 "
" 5, Second Intermediate	36 in.	12 in.	22½ in.	9¾ in.	27 in.	8 to 11 "
" 6, Primary	36 in.	10¾ in.	20½ in.	9 in.	25 in.	5 to 9 "
						Rear seats.

Rear seats to each size, one-half the above widths.

 Please notice that our No. 1 is for Normal Schools and that our No. 2 is the largest seat required in Common Schools.

FLOOR SPACE. No allowance made for aisles. Widths may be reduced one or more inches, if necessary, to economize in space.

* Lowest point of curve.

† Lowest side, next to the scholar.

Testimonials.

We select the following from many similar at our disposal. They embody the views of those who have tested the TRIUMPH Desk in different localities, and who selected it in preference to various styles offered.

Oshkosh, Wis.—Having used School Furniture of your manufacture during the last nine years, I feel warranted in considering it superior in *form* and *finish* to any other furniture used in schools under my supervision. In four different purchases, your furniture has been examined side by side with other leading manufacturers', and, after full examination, adjudged the best.
G. S. ALBEE.

Winona, Minn.—I have no hesitation in saying that your "Triumph" School-Desk is, in all respects, the best device for its purpose with which I have any acquaintance. I believe this desk to be clearly entitled to the name you have given it. Being constructed on sound physiological principles, no intelligent educator can afford to disregard its high claims to general appreciation.

WILLIAM F. PHELPS, *State Normal School.*

Jefferson, Wis.—In 1870 we put about \$700 worth of Triumph Desks in our High School building, and after eight years' use we find them perfectly satisfactory. The hinges seem to be in as good condition as when put in. There is not a noisy, shaky desk among them.
ADAM KISPERT.

Olmstead, Ky.—The Triumph Desks have given perfect satisfaction. I do not see how any improvement could be made in them, either in respect to comfort, durability, or beauty. The Principals of several other schools have examined them, and were very enthusiastic over them.
JAS. H. FUQUA.

Williamsport, Pa.—The 'Triumph' Dovetailed School-Desk commended itself to us on examining the claims made by you, and a close investigation led us to feel fully convinced, the result of which was the *unanimous adoption* of the desk by our committee of five, and the *endorsement of the full board*. The desks offered in competition were of the old screw style of fastening, with one exception, which we regarded as *being still more inferior*. Notwithstanding the price being above all the others, we feel we have secured the *cheapest School-Desk we have ever purchased*. A trial of nine months, including the winter term, when the rooms were continually heated, has demonstrated the correctness of your views. For firmness, strength, comfort, and beauty, we consider the *desk unequaled*, and fail to see how it is possible to improve it.

Very respectfully,

(Signed) WM. R. WILLMOT, JAMES SMEETON, }
JAS. F. HARRIS, JAMES N. KLINE, } *Building Committee.*

From AARON GOVE, *Superintendent of Public Schools, Denver, Col.*—"On a trial of your 'Triumph' Dovetailed Desks, recently, we found it nearly *impossible to separate the wood from the iron*. These desks have been in use in Denver several years, and our dry atmosphere seems to have so shrunk the wood as to make it inseparable from the iron."

JAMES WARD, *Supply Agent of Board of Education, Chicago*, says: "You ask, 'Do the dovetailed seats shrink or in any way become loose?' *They do not*. You also ask, 'Is this dovetailing perfectly satisfactory?' *It is*, so far as I know. I have heard no complaints from the teachers."

From JOHN S. WHITE, *Master Brooks School, Cleveland, O.*—"By a long and careful examination of all the various school-desks in the market, I convinced myself that yours was *pre-eminently the best*. One needs but compare the 'Triumph' desk with the various others, to see how much superior it is in finish, in beauty, and gracefulness of design, in the selection of woods, and firmness upon the floor. At my leisure I will write you a letter about the 'Triumph' Dovetailed Desk, THE BEST SCHOOL DESK MADE IN THE WORLD, which you may use as you please."

Wyoming, Pa.—The seating which you did for us in the Wyoming Grammar School with your new "Triumph" Desk is proving itself to be all you claimed it, viz.: *convenient, strong, noiseless, symmetrical, economical, and of superior workmanship.* We were offered the screw desks at a less price, but took the "Triumph" solely on its merits, believing it to be the *most economical* in the end. Its use in the school gives *entire satisfaction* to all concerned. No part of the work has proved defective.

Very truly yours,
(Signed)

ROBESON BOYD, *Pres.*
E. R. WOLFE, *Secy.*

Sunbury, Pa.—We have in use about 200 "Triumph" Dovetail Desks, which we selected from the styles of four different manufacturers, after a most *careful comparison* and examination, on account of comfort and the strength of dovetailing together, which is *much stronger* than screws, to say nothing of other points of superiority. Having *used these desks during the term*, we would further state that our expectations have been *fully realized, giving entire satisfaction in every particular* to all concerned.

(Signed)

DAVID R. MELICK, *Pres.*, } *Upper Augusta*
LEMUEL SHIPMAN, *Secy.*, } *School Board.*

From S. G. HUBBARD, Treasurer Smith Academy, Hatfield, Mass.—"It gives me pleasure to say that the 'Triumph' Desk, purchased for the Smith Academy in Hatfield, about *three years since*, has given perfect satisfaction to the Trustees and patrons of the school. The desk has *proved itself to be as substantial and durable* as it is beautiful in design."

Prof. W. D. PARKER, Supt. Public Schools, Janesville, Wis., says: "The dovetailing feature of your furniture is a great step in advance in the school-furniture business. In your desks, the joints are closer than when first set up, thus verifying all you claimed when the sale was made. We consider this incomparably superior to all screws."

A. H. ELLSWORTH, *City Superintendent of Schools, Green Bay, Wis.*, says: "You ask about the desks you furnished last fall. To be sure of my facts, I visited the school-rooms for a close examination, a day or two since. I did not find a desk that was in any way defective. I am satisfied the dovetailing is the strongest and neatest way of putting up school-desks that I am acquainted with."

The undersigned, having purchased the Dovetailed Triumph Desks, and having used them in their schools from six months to three years, claim that the desks are all that they were represented, and that they give the best of satisfaction. The parties are all reliable; want of space prevents adding other names of several School Boards.

H. A. SPOFARD, Com. Lebanon, Conn.

M. K. NORTHAM, Com. Stony Creek, Conn.

HENRY Z. NICHOLS, Com. Branford, Conn.

SAMUEL S. ST. JOHN, Com. School District No. 14, Ridgefield, Conn.

GEO. W. COOK, A.M., Prin. Cook's Collegiate Institute, Poughkeepsie, N. Y.

S. H. BISHOP, A.M., Prin. Select School for Boys, Poughkeepsie, N. Y.

O. WINTHROP STARR, A.M., Prin. Military Institute, Port Chester, N. Y.

Miss R. E. JUDKINS, Prin. Philadelphia Seminary, Philadelphia, Pa.

HENRY A. SMITH, Com. Pawtucket, R. I.

JOHN W. MARSHALL, Com. Rockport, Mass.

OSCAR BELDEN, Com. Hatfield, Mass.

ROBERT J. WALKER, Com. Royalston, Mass.

GEORGE H. B. GREEN, Teacher, Belchertown, Mass.

HORACE BATCHELER, Com. Sutton, Mass.

A. S. SHELDON, Com. Dorset, Vt.

GEORGE SWASEY, Com. Newbury, Vt.

EPHRAIM H. STONE, Com. St. Johnsbury Center, Vt.

J. W. F. HOBBS, Com. Northampton, N. H.

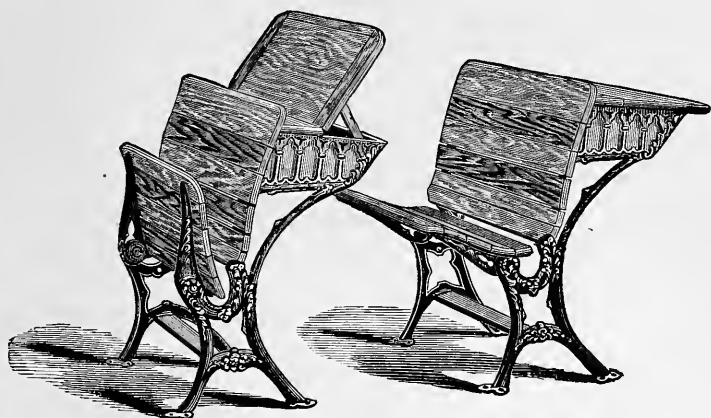
JOHN W. SANBORN, Com. Wolfsboro Junction, N. H.

JOHN J. STURGIS, Com. New Gloucester, Me.

T. C. SMART, Supervisor of Schools, Cherryfield, Me.

CHARLES NORTHEED, Supt. of Schools, New Britain, Conn.

YUNG WING, Chinese Educational Commissioner, Hartford, Conn.



New "Triumph" Box Desk.

WITH FOLDING SEAT AND LIFTING TOP.

Made both Single and Double.

This Desk combines the advantages of a "Box" Desk with the important improvements of our "Triumph" Open Desk and Seat. The lifting lid or top is made of solid wood, without any panels or border; on the under side two cleats of dovetailed iron, one-half inch wide, extend the width of the top, one at each end, which effectually prevent any springing, warping, or splitting. This is a great improvement over the glued framed tops of the past.

The Double Desks have separated apartments with pencil trays and separate raising lids to each, so one pupil need not disturb another when opening his desk.

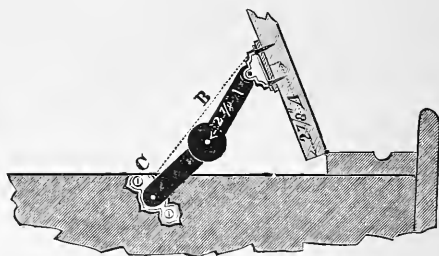
The dimensions of the Box-Desks, height of seat, etc., are precisely the same as for corresponding Nos. of "Triumph" Open Desk and Seat. We do not make the smallest, or No. 6 size, in box style, as it would not be desirable. All but smallest sizes (Nos. 4 and 5) are supplied with the Patent Non-Corrosive Silvered Ink-Wells. The lids are supplied with Andrews' Patent Desk Lid Support.



Normal or Collegiate Desk.

BENT SPINDLE AND RIM CHAIR.

This desk is specially designed for use in the higher schools and colleges. It is a model of beauty and convenience. The castings are unsurpassed for perfection in outline, carving, etc., and are provided with the adjustable foot rest. The chair, which has a bent oak rim, is very strong and is finished either light or in imitation of walnut. An ordinary movable chair can be used. Each desk is furnished with ink-well and lid support.



Andrews' Patent Desk Lid Support.

IN USE UPON ALL OUR LID DESKS, INCLUDING TEACHERS' DESKS.

This Lid Support is a new invention, and secures a most desirable result not hitherto accomplished. It is made of steel, and is self-springing, self-acting, and self-sustaining. The desk-lid cannot be dropped "down" or "over backwards," as the support holds it in *any position*, and is at the same time the strongest "check" against throwing the lid back too far. The motion of the lid works it without the hand.



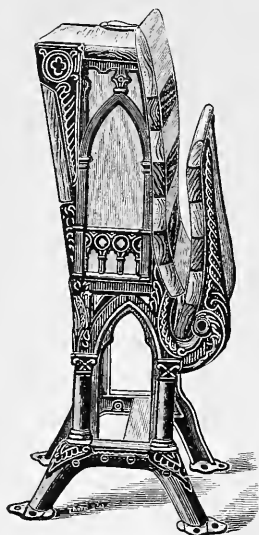
The "Triumph Study" Desk.

ONLY 15 INCHES FROM THE EYE TO THE BOOK.

Notice the natural, easy, and healthful position of the Scholar.

The "Triumph Study" Desk is constructed on the same method as the "Triumph" Desk and possesses all the advantages of the dovetail process, so fully described in the preceding pages. It is well proportioned, **handsome**, very **strong** and **durable**. Although it has not been in use as long as the "Triumph" it has already obtained a degree of popularity that ensures its success, and places it in the front rank of school desks. The cuts partially represent the advantages of this desk, which is made, either single or double, in all sizes.

Points of Superiority.



FOLDED.

Book-box locked. Showing Desk and Seat occupying only 10 inches in space.

The Triumph Study-Desk is better than all other folding lid desks, for the following reasons :

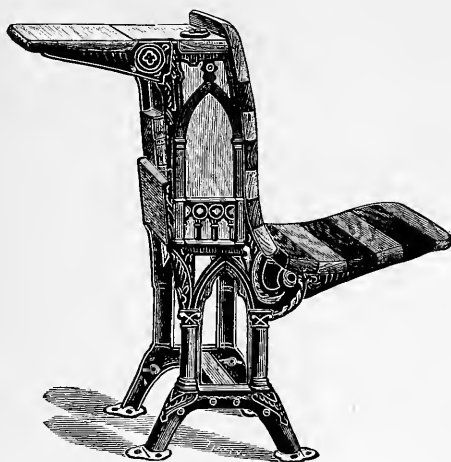
1. Each pupil can fold his own seat, and close his own book-box, without noise and confusion, or interfering with any other pupil.
2. When the lid and seat are folded, the desk only occupies *ten inches space*.
3. It can be transformed in an *instant* from a *study-desk* to a *writing-desk*, and then to a perfect *settee*.
4. On account of the dovetail mode of fastening, *two* "TRIUMPH" desks can be "set up" in the same time required to "set up" *one* ordinary desk.
5. Under the *ink-well-piece* is a *pen and pencil-case groove*, where these articles are kept safe.
6. The book-box is *larger* than that of any other desk. The books are placed on end as in a library, not thrown upon a shelf, nor piled one upon another.
7. The back and seat are slatted and curved so as to fit the form of the person, and great care has been taken to get *true* physiological curves
8. The rough usage, such as climbing on the desks, playing tag, etc., which would break the *stationary* top desks, will not injure the *study-desk in the least*, when folded and locked.
9. Whether open or folded, there are no sharp corners nor iron projections to catch and tear clothing.
10. *A lock on every desk without extra cost. (Keys for Teachers and Janitors only.)*
11. By a **new process of manufacture**, the brittleness of the castings is taken out, making unquestionably the strongest in the market.
12. The Triumph Study-Desk is the **only** desk ever invented combining a **Noiseless Folding Lid**, which disturbs no other scholar; a **Folding Seat**, which will *remain noiseless*; a **Closed and Locking Book-Box**, a **Book-rest**, which presents the

book to the eye in a **direct** line of vision, and a **foot rest** which stops the scraping of feet on the floor.

13. This desk is the *perfection of beauty* and elegance, in symmetry of form and style of finish. Hard woods are used exclusively, presenting the finest and most effective contrasts in color. Maple and Cherry, in alternate slats, are chiefly used. Ash or other woods furnished if preferred

☞ The contrasts are produced by the natural color of the wood, no **staining** nor cheap **veneer** used.

14. The scholars can rise in their places simultaneously, raising the lid as they do so, without losing time by folding the seat behind them.



AS A WRITING DESK.

Seat and Lid Open. Showing the Lid in Position for Writing or Taking Notes in the Lecture Room.

The Book-Rest.

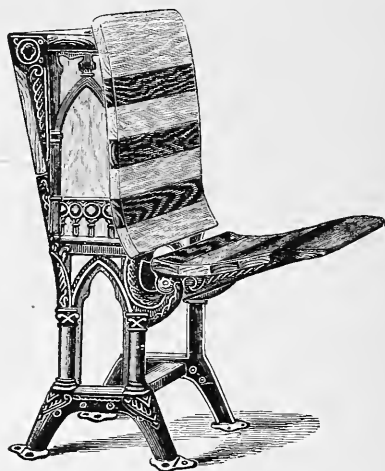
15. The *folding lid* can be turned over as seen in the cut on page 21, presenting the under side as a rest or support for the books

16. The scholar is not *compelled* to hold the book in the hand during the hours of study. A correct, easy and graceful posture is *naturally* assumed by all who use the "*book-rest*."

17. The *book-easel* supports the book directly in front of the pupil, and at a proper *distance* and *angle* for reading.

18. The book-easel is fifteen to eighteen inches from the eye of the scholar, distance varying according to the size of desk used.

19. The book will stand on the book-rest, without trouble to the scholar. Observe, in the cut on page 21, that the boy's hand does not *touch* the book, but is at one side, lying on the *book-easel*



AS A SETTEE.

Lid Folded and Book-box Locked. For Assembly Rooms, Colleges, Chapels, Halls, etc.

The Folding Lid.

- 20. *It is held in position by gravitation.*
- 21. It is *noiseless* in opening and closing.
- 22. It is simple in construction, has no machinery, bolts, springs nor bars to make a noise, or get out of repair.
- 23. When the lid is folded down over the *book-box*, it is locked, thus perfectly protecting the books, papers, pencils, etc., from dust, damage, or intrusion. This is a very important matter, as the drawing and school books of young ladies and younger female scholars have sometimes been insultingly dealt with by "fellows of the baser sort," who happened to occupy their seats at evening meetings, lectures, concerts, etc.
- 24. The Triumph Study-Desk is the **only** folding-desk in which the lid, when being *raised* or *lowered*, **will not strike the knees**; nor can it be *thrown over* upon the head of the pupil occupying the seat in front.

25. **The lid locks itself** in the different positions seen in the cuts. The lock is in, and a part of, the hinge-joint, and is *automatic in its working*. "It is a marvel of mechanical ingenuity!"

26. The lid is entirely under the control of the pupil using it, and cannot be *pushed* nor *thrown out* of position.

27. The smallest child can with ease raise or lower the lid, by taking hold of the front edge and lifting it a very little. Notice that there are *no spiral springs* nor *wire levers* underneath the lid to pull at, nor *any machinery whatever* about the desk.

28. The lid is adjusted to the different positions, by the use of the *only* successful means ever devised—our **patent improved Automatic Slot-Hinge**.

The Seat-Hinge.

29. It is conceded the strongest ever manufactured. It has *three bearings* or *stops*; one in front of the *fulcrum*, one back, and the *solid iron trunion* and socket—see cut.

30. It is made noiseless, not by using pads of either India rubber or leather, wooden hinges, nut and bolt friction hinges, nor by any other of the various devices which perish in a day. These *pads* are soon decomposed by contact with the iron, and *dash down*, crumble to pieces and fall out; the wooden hinges chip off and split, and the *nut and bolt friction hinges grind loose*, while the nuts work loose and sometimes entirely off, from the constant movement of the seat. The Triumph seat has the only effectual means of preventing both looseness and noise—the **Patent Indestructible Steel Spring Washer**.

31. The seat will support itself at any angle, and not come down with a **bang** whenever let fall; **warranted to remain noiseless forever!** No other manufacturer can furnish a really **noiseless and durable hinge**.

32. The seat will support a **ton**, and no danger of breaking.

33. It is as easy to sit upon as an upholstered "rocking-chair," and **far more healthful**.

It is essential that the foregoing articles receive the most careful consideration from those about to purchase school desks, in order that the **many decided advantages** of the TRIUMPH STUDY DESK shall be fully known and appreciated. The more thorough the investigation the stronger will be the conviction that this is, in all respects, **the best folding-lid desk ever offered to the public**.

Dimensions of the "Triumph" Study Desk.

Single Desks for One Pupil.	Length.	Height of Seat.	Extreme Width.	Age Accommodated.
No. 1, Normal	24 in.	16 in.	33 in.	Adults.
" 2, High School	24 in.	15 in.	33 in.	16 to 20 years.
" 3, Grammar School	24 in.	14 in.	29 in.	13 to 16 "
" 4, Intermediate	21 in.	13 in.	29 in.	10 to 13 "
" 5, First Primary	18 in.	12 in.	27 in.	7 to 10 "
" 6, Second Primary	18 in.	10 $\frac{3}{4}$ in.	24 in.	5 to 7 "
Rear Seats.				
Double Desks for Two Pupils.				
No. 1, Normal	42 in.	16 in.	33 in.	Adults.
" 2, High School	42 in.	15 in.	33 in.	16 to 20 years.
" 3, Grammar School	42 in.	14 in.	29 in.	13 to 16 "
" 4, Intermediate	42 in.	13 in.	29 in.	10 to 13 "
" 5, First Primary	36 in.	12 in.	27 in.	7 to 10 "
" 6, Second Primary	36 in.	10 $\frac{3}{4}$ in.	24 in.	5 to 7 "
Rear Seats.				

In placing desks, let the *edge* of the seat project under the lid of the desk before it about one inch, and so on until all are placed; also, place only desks of the *same size* in each row, from front to rear of room.

Testimonials.

From REV. A. C. ROE, *Cornwall-on-Hudson, N. Y.* "The desks I am much pleased with, and like them better from day to day."

From JOHN J. HULL, *Clintondale, N. Y.* "We like the seats first-rate, and our School Commissioner pronounces them 'A No. 1.'"

From GEO. B. WINSLOW, *School Trustee, Gouverneur, N. Y.* "The TRIUMPH STUDY DESKS purchased of you have been in use a few weeks in our Primary Department and are in every way satisfactory. The teachers and pupils are delighted with them. These desks were selected after comparison with other first-class desks, by reason of their superiority, both as to form and strength as well as to beauty of finish. The position in which the pupil is enabled to hold his book while studying I regard as a very great improvement; besides, the folding lid admits of the desks being placed nearer together, thus tending to encourage an upright posture, also allowing a greater number of desks to be put in a given space. Had I the necessary authority I should order a hundred more for use in our school."

From GEO. P. FELTER, *School Trustee, Nyack, N. Y.* "Our new desks more than answer all requirements—they are splendid."

From I. N. LEIGH, *Principal Classical School, Flemington, N. J.* "Many of our patrons and others have visited the school to see the new furniture. All pronounce it beautiful, which indeed it is."

From R. M. LUSHER, *State Supt. of Pub. Instruction, New Orleans, La.* "The desk is indeed a triumph of mechanical skill, and a model of beauty and convenience, and I doubt not that it will soon find its way into the schools of our country."



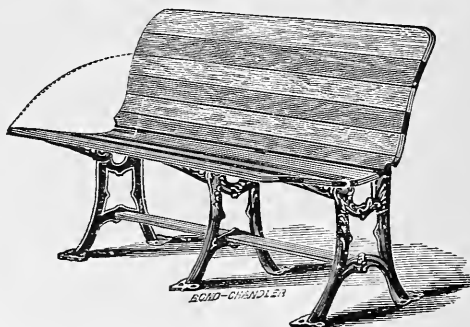
Normal Lid Desk and Revolving Pedestal Chair.

This is the most complete Desk ever offered for Higher Classes in Academies, Colleges, etc. It embraces **elegance, comfort, and extreme durability.** The design is novel and striking, both of Desk and Chair, which are permanently attached to the floor. The Chair will turn to right or left only, to allow egress or ingress from either side; or make a complete revolution, if desired. The lid of the Desk is made to lift, and supported with our Patent Lid Support. The ornamental wooden guard on the front of the Desk is supported by metallic posts at each end and in the centre, neat and tasteful in design, which are sunken into the woodwork of the box, affording extra strength at this point.

The castings have a pleasing effect finished in maroon japan, with prominent lines relieved by bronzing.

The Desk can be made to accommodate two pupils, and in cherry, walnut, or other woods, if desired. **Size,** Single Desk, 24 x 18 inches. Any desired size made to order.

SETTEES.



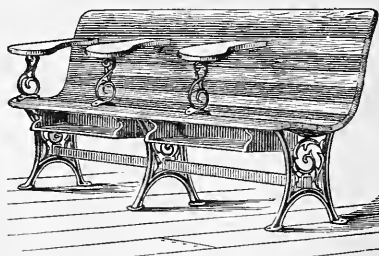
“Triumph” Recitation Seat.

No. 156. CURVED BACK AND CURVED FOLDING SLAT SEAT.

This Settee is made in six sizes corresponding with those of the “TRIUMPH” DESK, and of the same handsome design.

Standard length 8 feet, but any length desired can be furnished at short notice.

The end castings are dovetailed into the wood, which is of alternating colors to match the “TRIUMPH” furniture. The dowels and bolted foot-rests are used, and, altogether, the “TRIUMPH” is the most **substantial, comfortable and beautiful** Recitation Seat yet designed, and one that can be “set up” with greater ease and rapidity than any other seat of the same length.



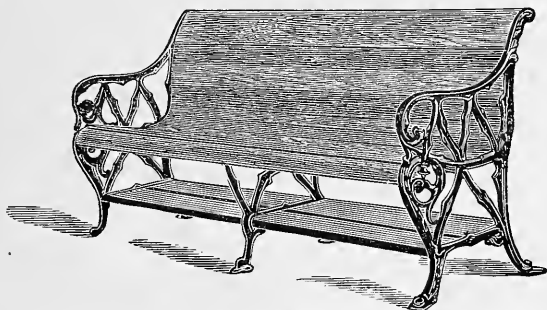
The Standard Primary Recitation Settee.

No. 157. WITH ARM REST AND BOOK BOX.

This new article has been made for primary pupils, where it is desirable to give more freedom of movement than is afforded by the combined desk and seat, and also to accommodate a greater number in the same space. A substantial arm rest is provided on which the slate or book can be placed. A book box beneath provides all additional

requirements. The shape is comfortable in the extreme. It can be used on carpeted floors without screwing.

This seat is made without arms for Sabbath-school use. Standard lengths, 8 feet.



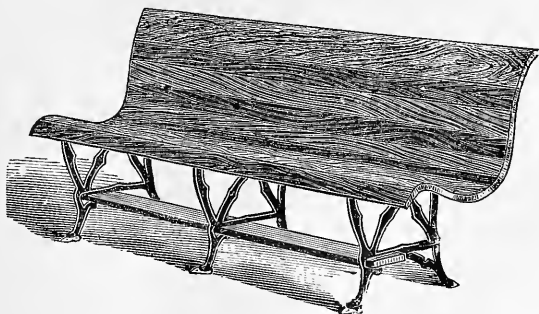
The Improved Gothic Settee.

NO. 150. FOR RAILROADS, HOTELS, COURT ROOMS, PORCHES,
LAWNS, ETC.

These Settees we believe to be the best in all respects for the above purposes ever made.

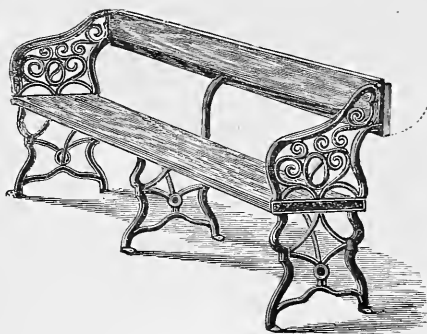
An entirely *new set of patterns*, having an *Improved Method of Bolt-ing*, instead of screwing slats to the castings, makes our Nos. 150 and 151 very much stronger than screws could possibly make them, while they *may be put together in less than one-half the time* required for seats of other manufacturers, nearly all the work being done before the seats leave the factory. These seats are made with alternating colors of hard wood, and finished, when designed for the lawn or porch, in coach or weather varnish. Size, 23 inches by any desired length.

No. 151, same size with dividing arms to prevent reclining.



LAWN SEAT.

No. 152, same size, without ends or dividing arms, suitable for the lawn, piazza, croquet ground, etc. An ample and luxurious seat.



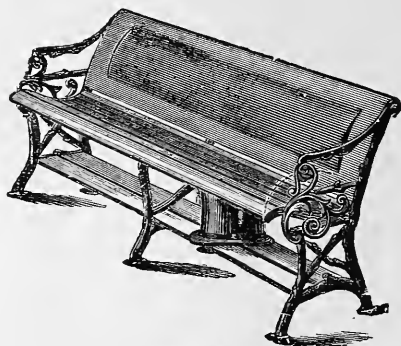
No. 161.

RUSTIC FOLDING SEAT, STATIONARY BACK.

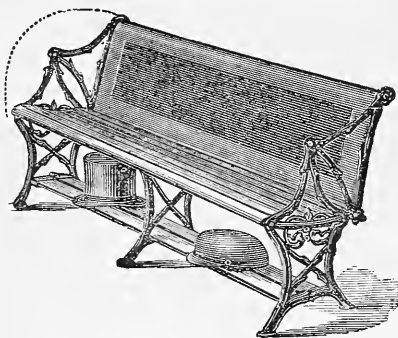
No. 163. Curved seat. Pan-eled back. Walnut. Ash panel. Alternate ash and walnut slats in seat. Usually made with panel extending through to ends, instead of as in cut. So made unless otherwise ordered.

No. 164. Same. Plain solid back. All ash.

Floor space, 8 feet x 28 inches.



No. 163.



No. 165.

RUSTIC STATIONARY SEAT. (Reversible Back.)

No. 165. Curved seat. Pan-eled back. Walnut. Ash panel. Alternate ash and walnut slats in seat. Usually made with panel extending through to ends, instead of as in cut. So made unless otherwise ordered.

No. 166. Same. Plain back. Ash.

This seat is similar in style to Nos. 163 and 164, and is designed to accompany them. In lecture rooms, church and Sabbath-school rooms, this seat, alternating with the above, presents a neat and uniform appearance, and facilitates the immediate facing of classes by means of the reversing back, which swings as indicated by dotted lines.

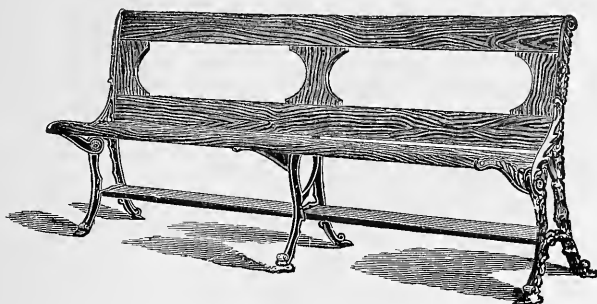
Nos. 163 and 165 are usually made with solid panel backs, but may be made with open panel backs, as shown in cut of No. 167, if desired.

SCROLL PATTERN SETTEE.

Floor space—8 feet x 28 inches. Any length made to order.

No. 160. Whitewood.

No. 161. Same. Hinged leaf attached, forming a narrow desk for students who take notes.



REMOVABLE HALL AND ASSEMBLY SEAT.

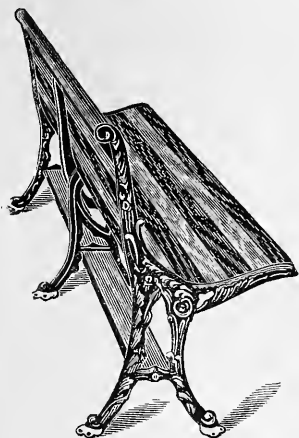
No. 167. Open and solid panel back. Ash. Walnut panels and scroll.

No. 168. Same. All Ash. No panel.

Curved folding seat, with alternate ash and walnut slats.

Orders should state when open panel is desired. Solid panel will be sent unless otherwise ordered.

Floor space, 8 feet x 28 inches.



SLAT BACK REMOVABLE ASSEMBLY SEAT.

For public halls or lecture rooms, which are cleared for festivals, fairs, etc. Two seats can be packed into the space of one.

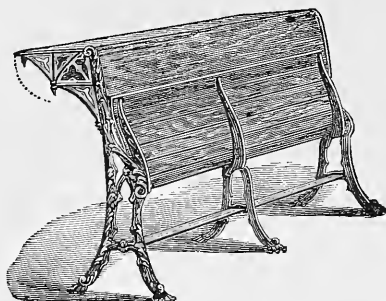
The castings are of extra strength; and the seats stand firmly, without fastening to the floor.

No. 180. Curved back and curved folding seat. Alternate ash and walnut slats.

No. 181. Same. All ash.

Standard sizes, Nos. 167 to 181 inclusive, 20 inches x 8 feet.

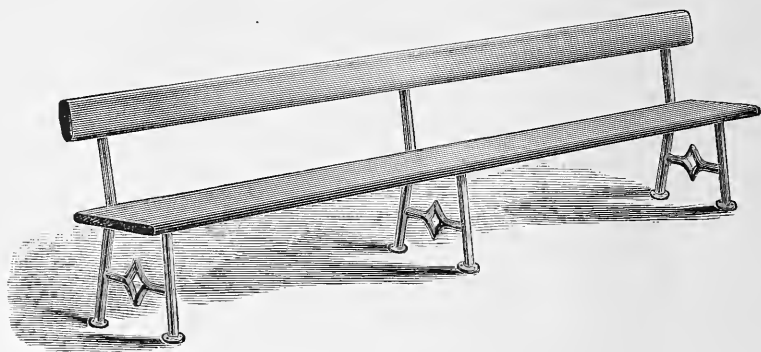
These seats we recommend for their *strength and comfortable sitting qualities*. They are especially suitable for lecture rooms and halls which are sometimes cleared for festivals, fairs, etc., as they fold into a space *only six inches wide*, and when provided with foot pieces (placed at right angles with seat), may be piled one on the other in any ordinary *hall entrance* leaving abundance of passage room, a result not to be accomplished with chairs. The castings, which are rustic and gothic in design, are very strong and rigid, and are united to the wood by our new method of bolting instead of screws, which more than doubles the facility of setting up. They are properly stiffened by dowels and braced below by the foot rest, not needing attachment to the floor, especially if provided with foot pieces.



FOLDING-LEAF DESK ATTACHMENT.

No. 175. This cut shows the Folding-Leaf Desk Attachment, which has a book-box that is closed, when desired, by the falling leaf. This is a very convenient lecture room desk, and may be attached to our Nos. 156, 163, 164, 167, 168, 180 and 181.

Specially desirable for use in Theological Seminaries, or other institutions where students desire to take notes.



The "Mission" Primary Settee.

No. 176. STATIONARY SEAT AND BACK.

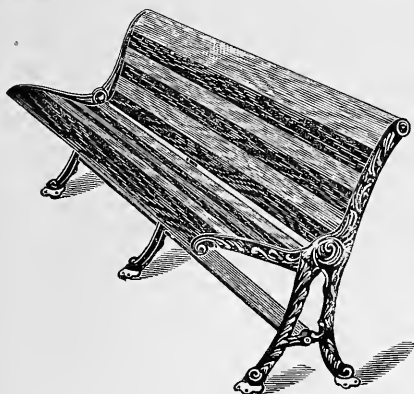
This Settee is the cheapest made, and is an admirable one for primary classes wherever an inexpensive article is required.

The iron standards are of good quality, and the back and seat of ash.

No. 1.	Seat 14 inches high.
" 2.	" 12 " "
" 3.	" 10 " "

Width of seat, 9 to 12 inches. No. 1 has two back rails. Nos. 2 and 3 have but one back rail each. Standard length, 9 feet. Can be furnished any length required.

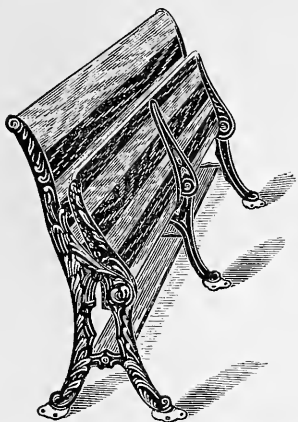
For neatness and economical qualities this settee is unequalled.



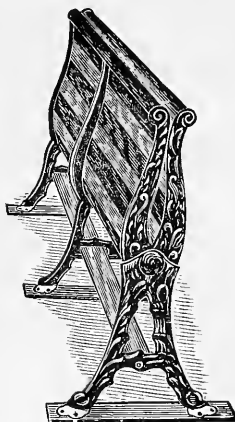
No. 183. PORTABLE SETTEE.

REVERSIBLE SETTEE.

This entirely new Sabbath-school settee will be found to meet the wants of those desiring a seat which is at once a **substantial** and **handsome settee** for the assembly room, and capable of being quickly, easily and **noiselessly** reversed, to accommodate Sabbath-school classes.



No. 183. Arranged for sweeping, or for entering the pew.

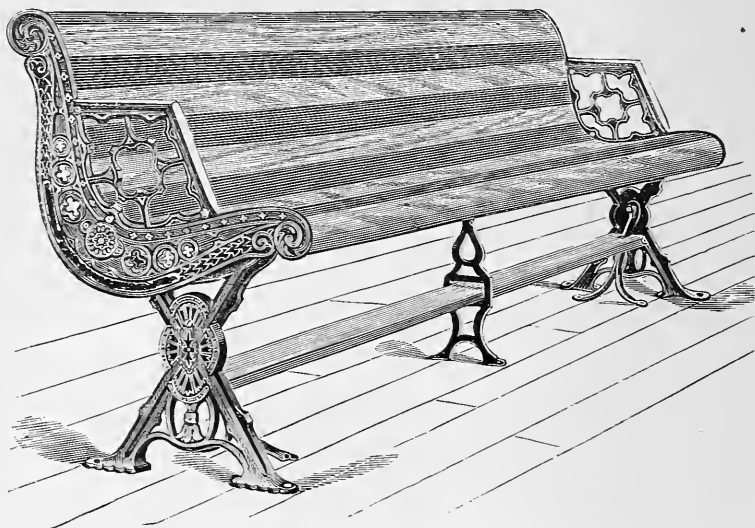


No. 183. Arranged for packing away to clear the room.

This seat possesses the following decided advantages ·

1. It is strong and durable.
2. It is handsome and comfortable.
3. It stands on strips, and need not be fastened to the floor, thus saving the carpet.
4. It is reversed easily and noiselessly.
5. If it is desired to clear the room, it packs into less space than any other settee.
6. It is light and easily handled.
7. It is cheap.

Whenever a portable, reversible settee is required, we recommend the above as possessing many desirable qualities not to be overlooked.



The "Keystone" Improved Reversible Settee.

No. 184. WITH CURVED SEAT AND BACK.

This settee successfully meets all objections heretofore made to a Reversible Back Settee. The combination of the seat and back in an unbroken and continuous line, with a curvature adapted to the human form, capable of complete reversal without the use of complicated mechanism has been gained in this settee, rendering it at once tasteful, economical, healthful and practical.

A centre support is attached to the floor at equal distances from each end of the settee, on which the body of the settee rests, *only when in use*. A foot rest extends the length of the settee, which, with the iron braces, gives perfect rigidity to the floor supports and prevents all lateral motion.

The original and handsome designs of the castings, with the graceful, curved outlines, unite in making the church or hall furnished with them attractive in the extreme. and unequaled by anything hitherto presented to the public.

We finish in any wood desired. and, notwithstanding its many superior points, we are enabled to offer it at a moderate price. It can be readily transported in parts, at low freights, and set up at a distance by an ordinary mechanic. The iron ends are handsomely finished in plain black or brown japan. or bronzed if desired. Standard length, 8 feet. Made any length desired.

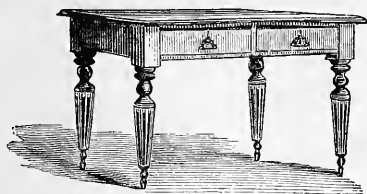
TEACHERS' DESKS.

Our method of attaching the legs to our Desks and Tables, so that they may readily be removed for transportation, is one in which the strength of the table or desk is in no respect impaired, while its advantages are apparent to every purchaser, when the difference between transportation rates of furniture set up and in *knock down* is considered.

The woods used in the construction of our Teachers' Desks and Tables are Cherry, Ash, Maple, Black and Satin Walnut, and are selected to give the most pleasing contrast in colors, and to harmonize with the School Desks they accompany.

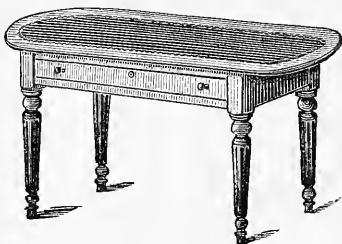


No. 300. 2 feet 6 inches long. Solid flat top, one drawer, with lock.



No. 301. Two drawers, with plain top. Length, 4 feet.

No. 302. Drawers, 5 inches deep, enameled cloth top. Length, 56 inches.



No. 303. Enameled cloth top, 46 x 24 inches.

No. 303½. Plain top. 56 x 28 inches.

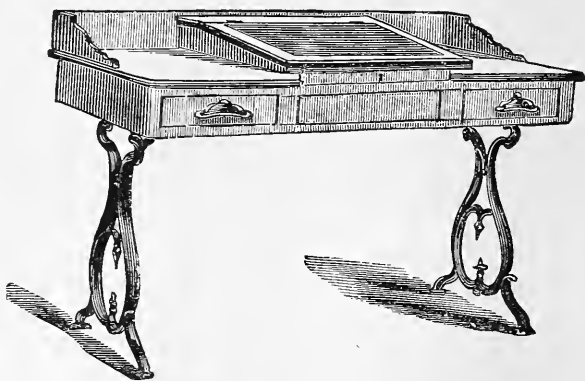


No. 304. 2 feet 6 inches long. Lid to raise, with lock and key.

This is a strong and neat desk, very well adapted for use in small class-rooms.

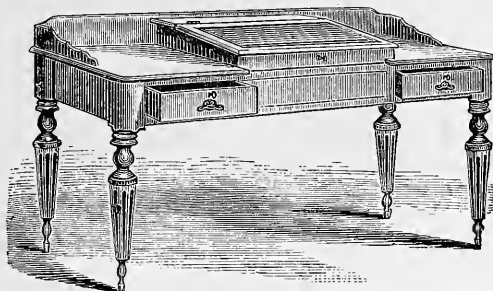
No. 304½. Same style, but larger ; being 3 feet 6 inches long.

No. 305. Same size as No. 304, made with walnut panels.



No. 308. 48 x 26 inches. Two drawers. Lid to raise ; supported on iron standards, corresponding with the iron-end furniture. Cherry or Ash.

This desk is very convenient and strong. It has all the necessary qualities of a good desk, and is a general favorite.

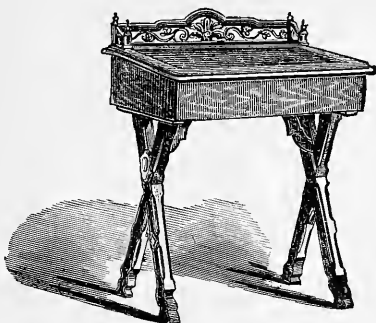


No. 310. 52 x 26 inches. Walnut. Plain legs, inclined top, two drawers.

No. 311. Same size and pattern, except that it is made of cherry, and has fluted legs, as shown in the cut.

No. 313. Same as No. 311, made of walnut.

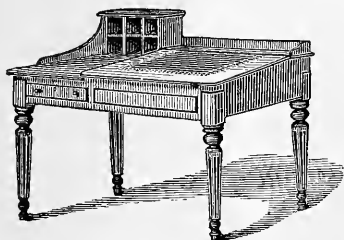
This is one of our most popular styles. The fluted legs and general superiority of finish of our desks give it an attractive appearance.



This is called the Council or Alderman's Desk, and where one of this size would answer it will be found most convenient. The wooden standards are elaborate, and well braced.

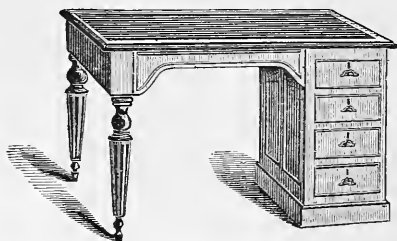
No. 95. 28 x 22 inches, with solid top.

No. 96. Same size. Enamelled cloth top, lock and key.



No. 314. 44 x 28 inches. One drawer, pigeon holes and tray, with lid to raise.

No. 315. Same, but drawer and book compartments in place of open pigeon holes.

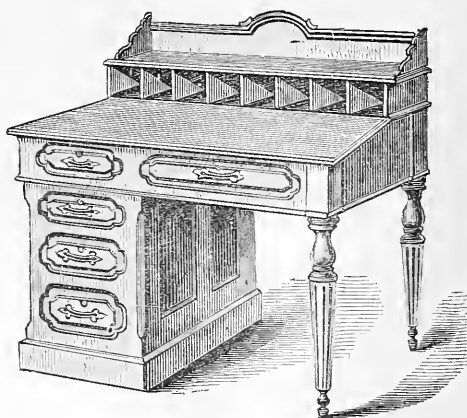


No. 319. 44 x 28 inches. Four drawers. flat enameled cloth top, fluted legs, finished back.

This and the succeeding styles, it will be observed, are arranged in the most compact form, with abundance of drawer space.

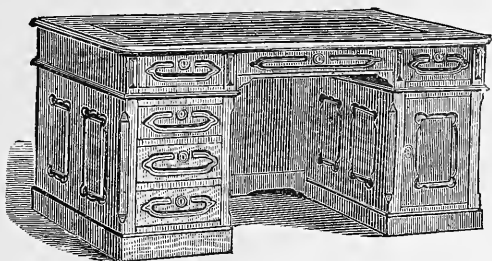


No. 320. 44 x 28 inches. Inclined enameled cloth top, solid or open railing, five drawers, with pulls and book cupboard, plain or paneled back.



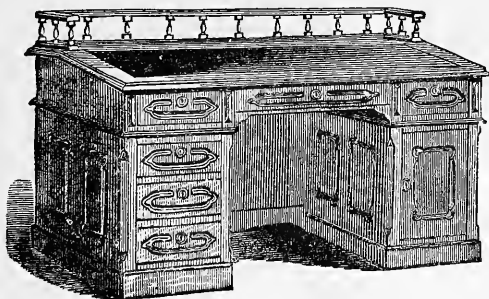
No. 325. 44 x 30 inches. Like No. 320, but having case of pigeon holes attached to top, with rail above. Enameled cloth, five drawers, finished back, fluted legs.

No. 326. Same, with finished back and closet.



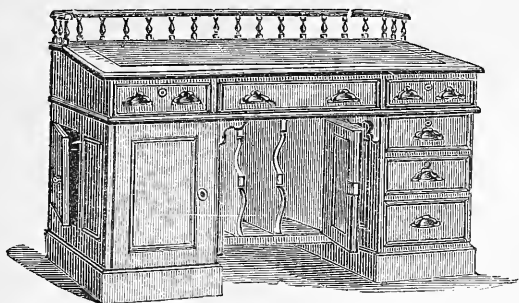
No. 340. 54 x 34 inches. Eight drawers, table top, plain back. Cherry. A new style, elegant and convenient.

No. 341. 54 x 34 inches. Same, with paneled back.



No. 346. 54 x 30 inches. Inclined enameled cloth top with railing, six drawers with bronzed pulls (cupboard in front and private cupboard in end). Walnut.

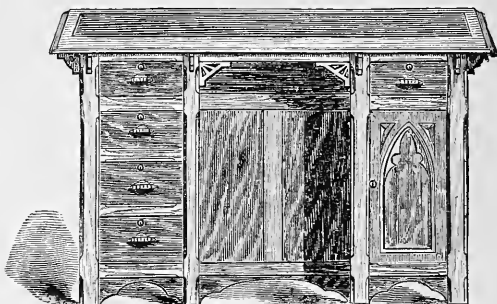
No. 347. 54 x 30 inches. Having paneled back and carved pulls, enameled cloth top and binding.



No. 348. 54 x 34 inches. Like No. 346, but having open or pigeon-hole cupboard at left or right, and partitioned book closet in center. Walnut.

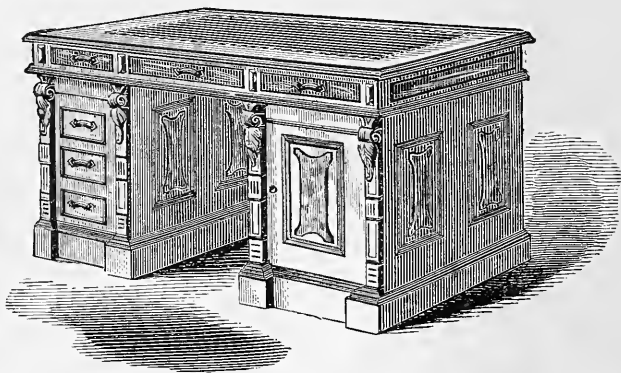
No. 349. 54 x 30 inches. Having paneled back and carved walnut pulls, enameled cloth top and binding.

The new style gothic desk, represented in the following cut, is an article of furniture that would embellish any school room, office or study. It is finished in the most careful manner, and is complete in every respect.



No. 352. 54 x 30 inches. New style Gothic desk, arranged similar to No. 346, finished ends and back, flat top, covered with billiard cloth.

This beautiful desk, like the one described below, is in every way well adapted for use in the trustees' room, or in the office of a board of education, as well as on the principal's platform. The beautiful designs of these desks and the fine workmanship displayed in their manufacture make them very tasteful and elegant.



No. 390. 56 x 33 inches. Flat top, billiard cloth, five drawers, closet for books and pigeon holes, elaborate, heavily carved pilasters, French walnut panels, and very superior finish.

No. 392. 56 x 31 inches. Inclined top, billiard cloth, five drawers and closets, narrow level.

No. 394. 56 x 34 inches. Inclined top, billiard cloth, five drawers and closet, wide level for boxes or cases.

CHAIRS.



No. 1. ASTOR.
Cane Seat.
Maple, - \$1.00.



No. 2. RECITATION.
Cane Seat.
Maple, \$1.00. Walnut, \$1.75.



No. 3. EXHIBITION.
Wood Seat.
Ash, with iron rods, \$1.40.



No. 4. PALISADE.
Wood Seat.
Ash, - \$1.00.



No. 5. JUNIOR.

Cane Seat.

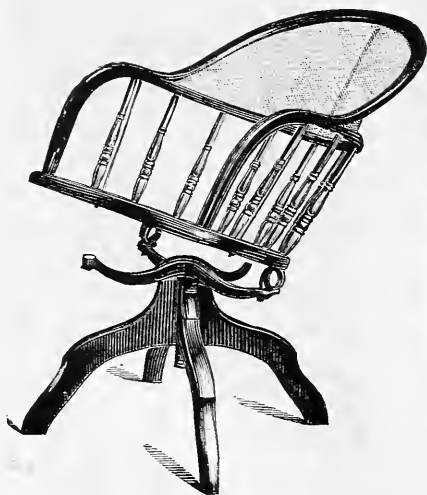
Oak, \$1.75. Walnut, \$2.25.



No. 6. COTTAGE.

Cane Seat.

Maple, \$1.25. Walnut or Oak, \$2.00.



No. 7 FAVORITE REVOLVING

With Springs. Cane Seat and Back.

Oak, \$6.00. Walnut, \$6.50.



No. 8. PRESCOTT.

Cane Seat.

Oak, \$4.00. Walnut, \$4.25.



No. 9. FAVORITE.
Cane Seat and Back.

Oak, \$3.75. Walnut, \$4.00.



No. 10. LIBRARY.
Cane Seat.

Oak, \$4.75. Walnut, \$5.00.



No. 11. SENIOR.

Cane Seat, with Iron Rods.

Oak, \$2.50. Walnut, \$2.75.



No. 12. OFFICE.

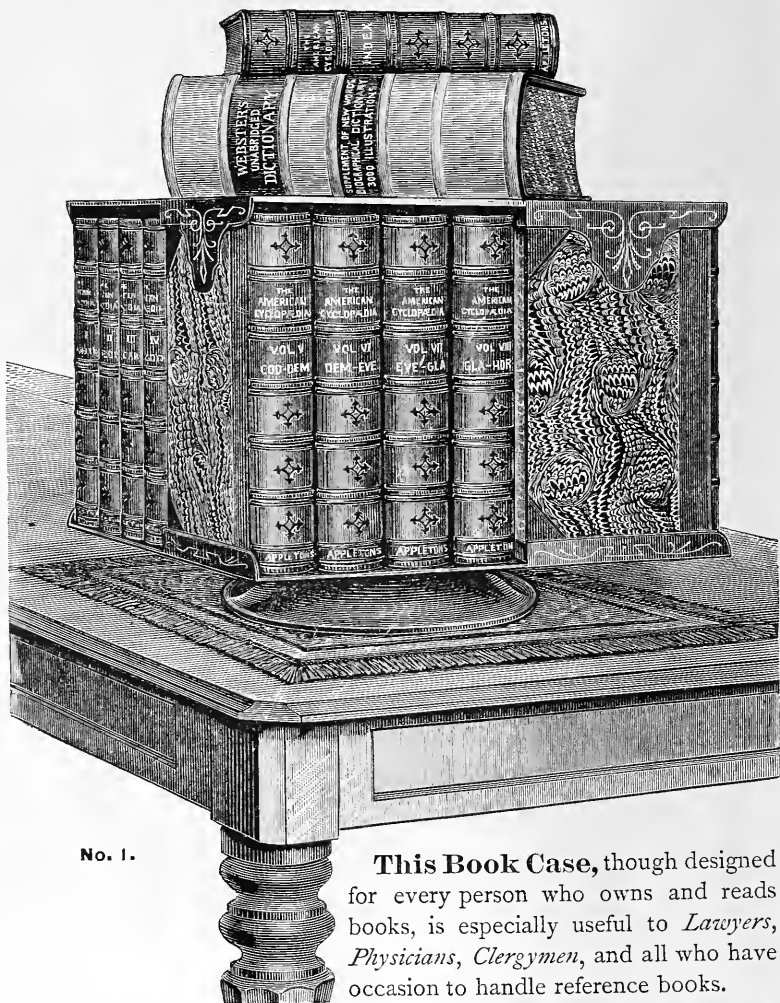
Ash Seat, with Iron Rods.

\$2.25.

The Johnson Revolving Book Case.

With Independent Adjustable Shelves.

(PATENT APPLIED FOR.)



No. 1.

This Book Case, though designed for every person who owns and reads books, is especially useful to *Lawyers, Physicians, Clergymen*, and all who have occasion to handle reference books.

It occupies *less space* than any other book case. In fact, it is the *most compact book case in the world*, as it contains *more books for its size than any other device*. It is *minimum* in size, *maximum* in capacity, and the *cheapest* book-case made.

Being made entirely of *iron*, it can never *shrink*, warp, crack, nor get out of order, yet it is not heavy, and it is *capacious* and *strong*.

It is highly finished, and suitable for any room, office, library, or parlor. Each shelf is independent of all the rest, and easily adjusted to adapt the several apartments to books of any height.

It is constructed in such a manner that *it can never wear out*.



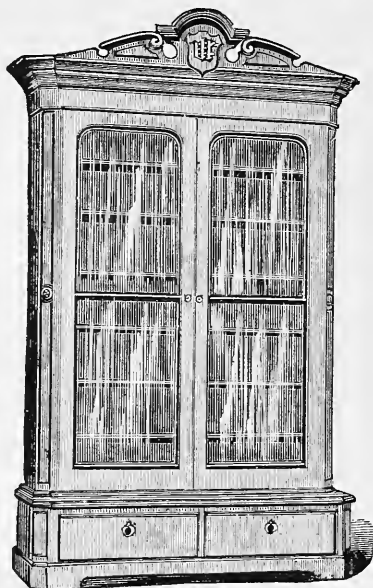
No. 3.

Sizes and Prices.

16 inches square for books not larger than $7\frac{1}{2} \times 10\frac{1}{4}$ inches.

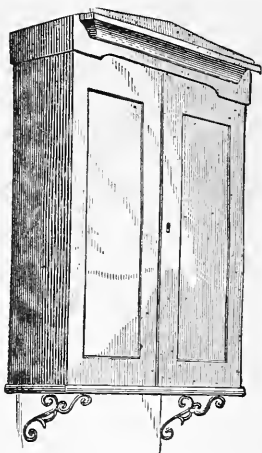
No. 1	With 1	apartment,	boxed for shipping,	-	-	-	\$10.00
" 2	" 2	"	"	"	-	-	12.00
" 3	" 3	"	"	"	-	-	15.00
" 4	" 4	"	"	"	-	-	18.00

Book Cases for School Libraries.

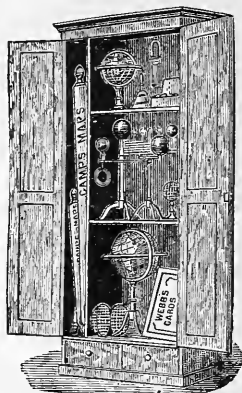


No. 7½. 52 x 18½ inches, 8 feet high. Plain.

No. 8½. Same. Paneled corners.



No. 440. 11½ x 30 inches wide inside, 3⅔ feet high, having shelves for books and apparatus. Will take in the 8 inch globe, etc. Any size made to order.



No. 241. 17½ x 31¼ inches inside, 6½ feet high. Plain case for maps, apparatus, globes and books.

No. 242. 17½ x 34 inches inside, 6½ feet high, with drawers in base. Divisions in both.

NEW TERRESTRIAL GLOBES.

A Good Globe, like the dictionary, should always be close at hand for reference.

The Teacher needs one, and cannot get along without it!

Object-Teaching is now considered an indispensable method!

Pictures are better than pages for educating the young. But the **Globe** is more than a picture; it is a tangible object that may be handled, a **fac-simile of the earth** on which we live. No map can take the place of a Globe, which shows the relative positions of countries and places in respect to their latitude and longitude. The Globe also shows how degrees of longitude grow shorter as we approach the poles, while the degrees of latitude remain the same.

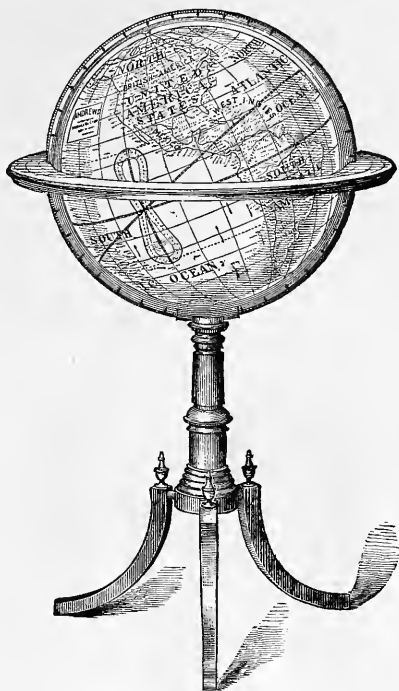
No article of furniture gives such a refining effect to the home or school as a good globe.

Our Globes are the **handsomest** and **strongest** that are made. They are **thoroughly revised to date**. *They cannot be broken, or even cracked*, being hollow, of several layers of *papier mache*, and thoroughly braced.

The polished **Brass Meridians** are marked distinctly to show the degrees of latitude, while the longitude is marked on the Equator.

The flexible **Quadrant**, of brass, also has degrees marked upon it for measuring distances on the meridians.

On the Horizon are the degrees of latitude, the names of the months, and the twelve signs of the Zodiac, by which one may find the position of the Sun in the ecliptic on any day in the year. The altitude, declination, time of rising, setting, etc., of the Sun are also shown.



12-INCH GLOBE, TRIPOD STAND.

No. 20, Nickel Plate, Complete....\$40.00.

" 21, Polished Brass, " 35.00.

Our list embraces a large number of styles, including several fine **Library Globes**, as well as **Slated Globes**, or "Spherical Blackboards," for use in the study of Geometry, Map-drawing, Navigation; etc. These Globes are sold on their **merit**.



LIBRARY GLOBE.

No. 1, 12 Inch.....\$50.00.

on which the plate is mounted. The nature of this shell cannot be discerned from the outside, and Globes of the most worthless materials are frequently offered for sale at prices below the cost of a good article. Such a Globe is easily ruined.

5. The Horizons of Nos. 28, 29, 46 and 47 are on separate layers of wood glued together so as to cross grains, rendering them light and very strong.

Sizes, from 3 to 30 inches in diameter.

Prices, from \$1.50 to \$150.00.

Our **Globe Manual** illustrates fully the use of Globes. Price, by mail, 35 cents.

The following are among the **advantages** of our Globes:

1. They show all the latest political changes and the principal topographical features, according to the latest discoveries.

2. Outlines of natural and political divisions are distinctly given.

3. Ocean Currents are represented on many of the Globes.

4. They are made of *papier mache*, and covered with a composition that cannot be easily dented or broken. They are impervious to water, and when soiled may be cleaned with a damp cloth or sponge.

[NOTE.—We wish to especially caution purchasers against Globes which are offered at suspiciously low prices. It must be remembered that the durability of Globes and the expense of their manufacture, and consequently their prices, depend very largely upon the construction of the SHELL upon

6. The 8-inch Globes are convenient for measurement, there being 1,000 miles to every inch on the surface.

7. Twenty-four meridians are represented, which make the reckoning of time very easy, being one hour for each meridian.



LIBRARY GLOBE.

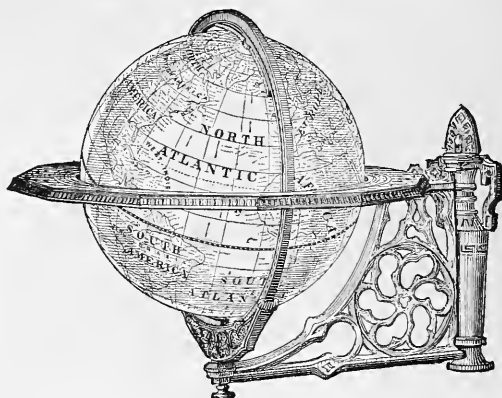
No. 2, 12 Inch, - - \$75.00.

8. They are of the most convenient size for general use, and where provided with horizons or meridians, are movable on their equatorial axis, allowing of convenient inverting for examination of the Southern hemisphere.

9. Parts representing water are colored blue, which, besides making a better looking globe, *prevents their showing signs of wear.*

We are prepared to furnish goods at prices that defy competition in first-class work.

12-INCH GLOBES.



Bracket Globe—Complete.
No. 30, - \$23.00.



High Round Stand—Complete.
No. 22. Brass, - \$30.00.
" 23. Wood, - 25.00.

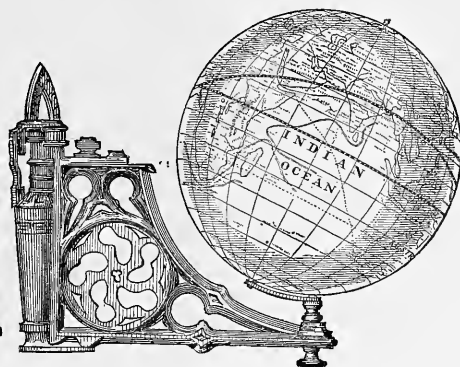


High Round Stand—Meridian.
No. 24. Brass, - \$27.00.
" 25. Wood, - 22.00.

12-INCH GLOBES.

**Bracket Globe—Meridian.**

No. 31, - - \$20.00.

**Bracket Globe—Plain.**

No. 32, - - \$16.00.

These Bracket Globes are attached to the wall, thus preventing the possibility of being upset. The globes are easily detached for handling in the presence of the class, and can be instantly replaced.

**High Wood Stand—Plain**

No. 26, - - \$18.00.

**Low Bronzed Stand—Complete.**

No. 27, - - \$30.00.

**Low Wood Stand—Complete.**

No. 28. 12-inch, - \$33.00.

No. 29. Same, with compass, 35.00.

8-INCH GLOBES.**High Round Stand—Complete.**

No. 40. Brass, - \$15.00.

No. 41. Wood, - 12.00.

**High Round Stand—Meridian.**

No. 42. Brass, - \$13.00.

No. 43. Wood, - 10.00.

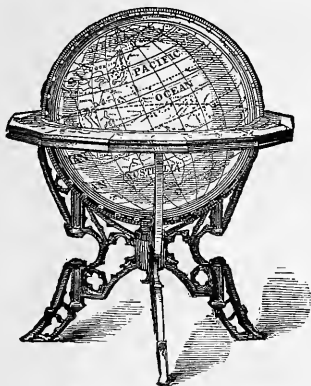
8 INCH GLOBES.



High Round Stand—Semi-Meridian.
No. 43½. Wood, - \$9.00.



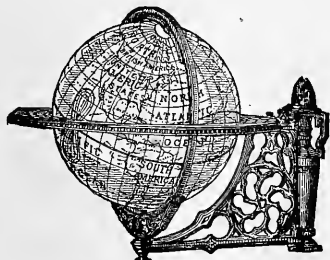
High Round Stand—Plain.
No. 44. Wood, - \$8.00.



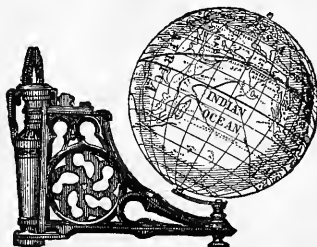
Low Bronzed Stand—Complete.
No. 45, - \$15.00.



Low Wood Stand—Complete.
No. 46, - \$16.00.
No. 47. Same, with compass, 17.00.



Bracket—Complete.
No. 48, - \$14.00.
“ 49. With Meridian only, 12.00.



Bracket—Plain.
No. 50, - \$10.00.

We furnish with all 8 and 12-inch globes an excellent new style Hinged Case, that can be fastened to the wall, forming a **book and apparatus case, see next page. Globe Manuals accompany all globes above 6 inch without charge.**

6-INCH GLOBES.



High Stand—Meridian.

No. 61. Wood, - \$6.50.



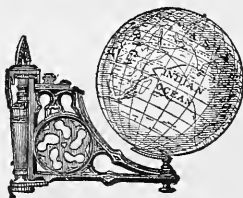
High Stand—Plain.

No. 62. Wood, - \$5.00.



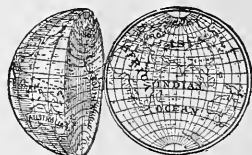
Bracket—Meridian.

No. 63, - \$6.50.



Bracket—Plain.

No. 64, - \$5.00.



Hemisphere Globes.

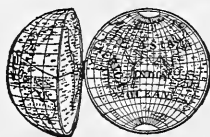
No. 66, - \$5.00.

5 and 3-INCH GLOBES.

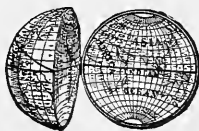


High Stand—Plain.

No. 70. 5 in., \$3.50.



No. 75. 5 in., \$3.50.



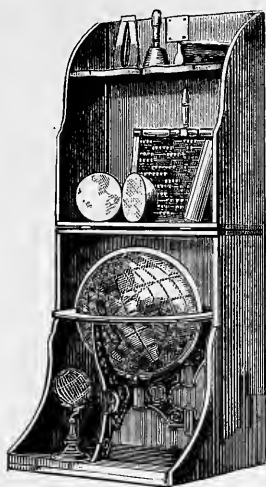
Hemisphere Globes.

No. 82. 3 in., \$1.50.



High Stand—Plain.

No. 80. 3 inch, \$1.50.



Hinged Globe Case.

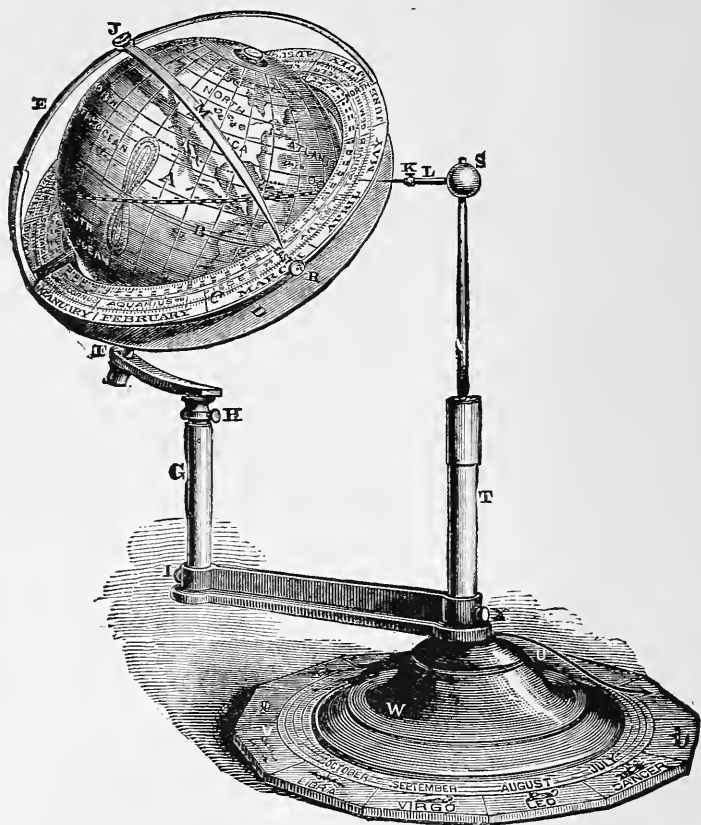
The above cut shows a very neatly arranged Hinged Globe Case (with lock and key), which is **sent free** with all 8 and 12-inch globes. It is easily arranged as a cabinet for the school room.



Slated Globes.

For the Study of Map Drawing, Spherical Geometry, Trigonometry and Navigation.

12-inch, Stand and Mountings like No. 27,	-	-	\$20.00
12 " " " " " 26,	-	-	18.00
8 " " " " " 45,	-	-	10.00
8 " " " " " 44,	-	-	8.00
6 " " " " " 61,	-	-	5.00



The MacVicar Tellurian Globe.

8 inch, \$40.00.

12 inch, \$60.00.

DESCRIPTION OF PARTS.

- A. The Globe.
- B. The Revolving Equator.
- C. The Circle used to represent either the Horizon or Circle of Illumination.
- D. The Circle used to represent the limit of the Twilight Belt.
- M. A Direction Index.
- N. A Time Index.
- U. A Calendar Index.
- S. A Ball representing the centre around which the earth revolves.
- L. A Pointer indicating the sun's vertical rays.

The MacVicar Tellurian Globe

is the latest, *simplest*, and *best* device ever presented for illustrating Geography and the elements of Astronomy. It is the product of many years' experience in the class room, and, hence, is thoroughly practical.

The globe is a **Working Model** of the earth in its relation to the sun. The horizon and other parts are so constructed that in every illustration the globe *represents* the earth's *real* position, and its relation to the sun.

It is so complete in its construction that it can be used by any teacher, and even by pupils twelve years of age.

Every attachment can be readily removed; hence, nothing need ever be used on the globe that is not necessary to illustrate the problem in hand. This enables the teacher to *adapt* his *illustrations* to the capacity and peculiar circumstances of his pupils. Complex problems can be presented in steps, and thus the naked truth be exhibited so that the *most difficult points* can be *readily comprehended* even by young pupils.

The device unites in **one apparatus**, in the *most convenient* and *substantial* shape, and at *much less expense*, the best form of Globe and the best form of Tellurian. It illustrates, also, in a more simple and philosophic manner than can be done by the use of both of these devices, all problems relating to the phenomena of day and night, change of seasons, twilight, rising and setting of the sun, the apparent daily motion of the sun across the horizon, the motion of the earth in its orbit, etc.

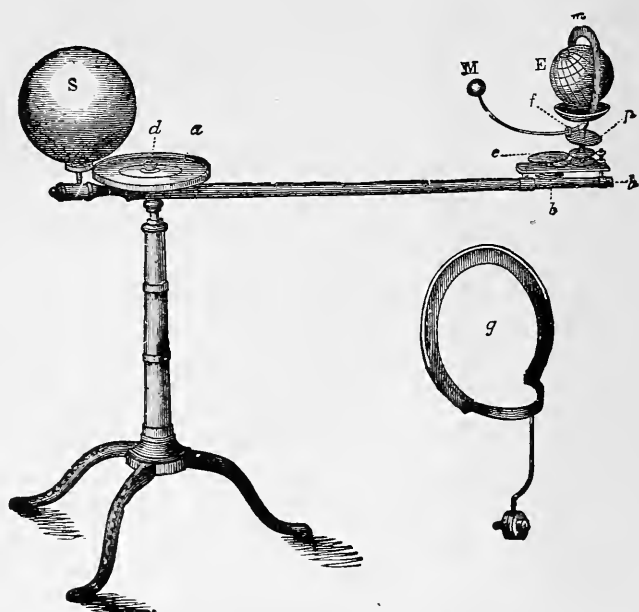
The method of illustrating these and all other questions pertaining to **Mathematical Geography** and the **Elements of Astronomy**, is presented in the **Handbook or Manual** which accompanies each globe. The handbook is *carefully* and *fully illustrated* with cuts, which exhibit in a *clear* and *simple manner* the course to be pursued in presenting each topic.

The Manual, separate, price 50 cents.

Special catalogue, giving full explanation of this wonderful invention, sent on receipt of three cent stamp.



This cut represents the MacVicar Tellurian Globe adjusted to show the sun's apparent daily motion, and the apparent motion of the Celestial Sphere.



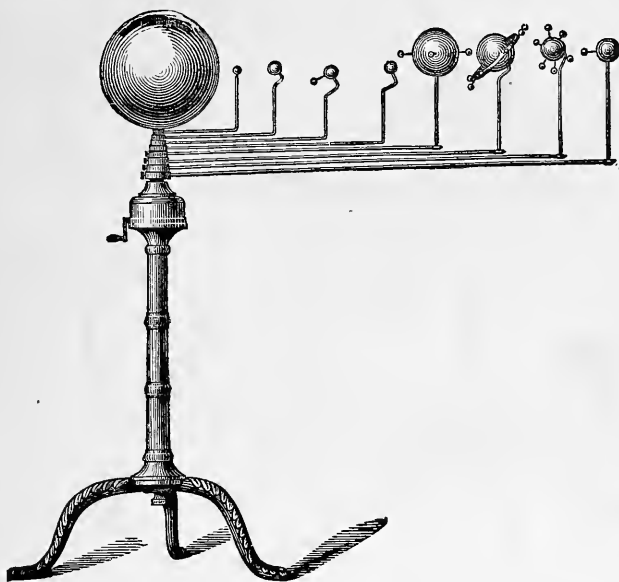
Geared Tellurian.

- No. 8. Brass mounted, with day circle and compass, - \$17.00
 " 8 A. Brass, with compass, best, new cog-wheel movement, dispensing with cord, complete, - - 25.00

THE TELLURIAN is an instrument designed to illustrate all the phenomena resulting from the relations of Sun, Earth and Moon to each other, and show the causes of the following:

1. Succession of Day and Night, and their difference in length.
2. Changes of the Seasons: Vernal Equinox, Summer Solstice, Autumnal Equinox and Winter Solstice.
3. Changes of the Moon: New Moon, First Quarter, Full Moon, Third Quarter, with the intermediate phases.
4. Solar and Lunar Eclipses—Partial and Total.
5. Philosophy of the Tides; their daily recurrence; Spring and Neap Tides, etc.
6. Precession or falling back of the Equinoxes.
7. Differences of Solar and Siderial Time.
8. Rising of the Sun north of east in Summer.

Many other things will suggest themselves to the practical teacher. The recent improvements in gearing, compass attachment, finish, etc., render this one of the **most useful and beautiful** pieces of apparatus that any school room or college can possess.



Improved Brass Orrery.

No. 12. Brass Standard Orrery, highly finished, - \$20.00

The Orrery shows the proportional size and relative position of the planets comprising the solar system, and their relative times of revolution around the Sun. Mercury, Venus, Earth and Moon, Mars, Jupiter with its four moons, Saturn with its eight, Uranus with its six, Neptune with its two, are shown revolving each in its separate orbit around the sun. The instrument is invaluable in teaching the young the first principles of Astronomy, and can be used to explain annual revolutions, eclipses, etc.

CELESTIAL SPHERE.

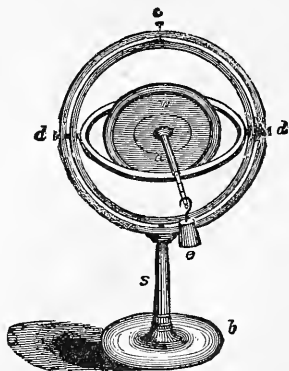
No. 15. Brass mounted, - \$15.00

This instrument is designed to assist the student in Astronomy, shows the Concave Sphere, Meridians, Equator and Poles of the heavens, also the Zodiac divided into the signs and degrees and Ecliptic. It illustrates most of the foundation questions arising in the study of Astronomy.

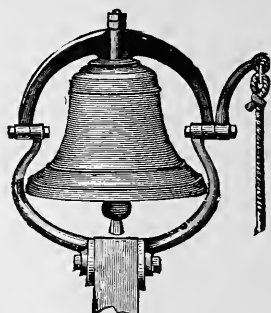
IMPROVED GYROSCOPE.

No. 17. Brass, having 3 rings, \$15.00

" 18. " " 2 rings, 12.00



Improved Gyroscope.



School and Church Bells.

We take pleasure in announcing a large reduction in the prices of our bells. These bells are cast from composite metal—in part steel, and are entirely different from all other bells. They should be judged entirely on their own merits, and not be confounded with the various kinds of iron, amalgam and (so-called) steel composition bells offered the public.

These bells average in price less than one-half as much as the copper and tin composition bells and mountings, and all over 24 inches are warranted against breakage twice as long—two years. As to quality, they are fine toned, can be heard as far as copper and tin bells of same size, and are more durable.

SCHOOL BELLS.

Diameter.	Weight, Bell and Mounting.	Price.
18 inches,	100 lbs.,	\$13.00
20 “	130 “	18.00
24 “	190 “	25.00

CHURCH BELLS.

Diameter.	Weight.	Bell and Mounting.	Price.
26 inches,	175 lbs.,	325 lbs.,	\$40.00
28 “	225 “	375 “	50.00
32 “	350 “	550 “	75.00
36 “	550 “	800 “	110.00
40 “	750 “	1,050 “	150.00
44 “	1,000 “	1,350 “	200.00
48 “	1,300 “	1,800 “	250.00
54 “	2,100 “	2,900 “	400.00

Call Bells.

The Call Bell in the school room and Sunday-school has become almost as necessary as the principal and the superintendent. It cannot be dispensed with.

We present below cuts of our leading styles. They are beautifully finished and of rich tone.



No. 1.

Gilt base, cut half size, \$1.20.

The following cuts represent the bells one-fifth size.



No. 2.

Fancy bronze base, \$1.10.



No. 3.

Nickel plated and verde.
Gilt or fancy base, \$1.60.



No. 4.

Fancy bronze base, 90c.
Gilt base, \$1.20.



No. 5.

Black base, \$1.40.



No. 6.

Plain beaded base, \$1.75.



No. 7.

Fancy bronze base, \$1.50.



No. 8.

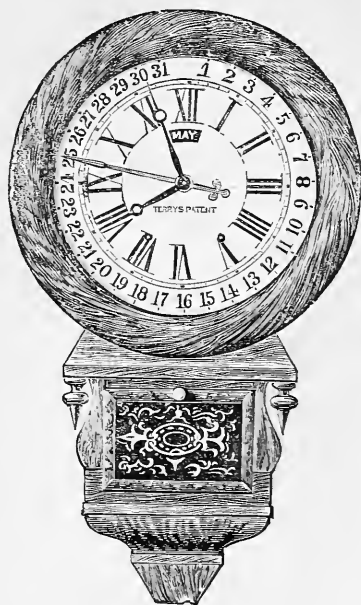
Fancy bronze base, \$1.80.



No. 9.

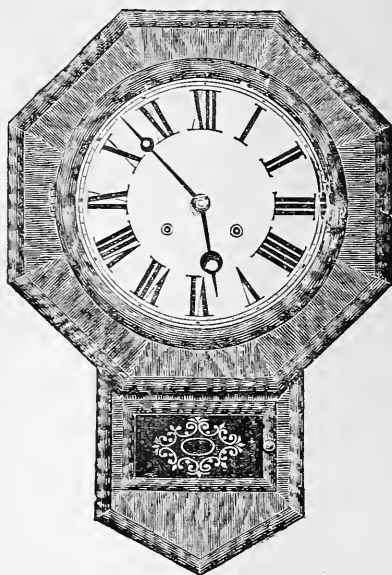
Fancy bronze base, \$1.20.

SCHOOL ROOM CLOCKS.



DROP EXTRA. CALENDAR.

No. 87. Eight day strike.
12 inch dial. Height, 26 inches.
Price, \$9.75.



DROP OCTAGON. R. C.

No. 88. Eight day time. 12
inch dial. Height, 26 inches.
Price, \$6.00.
Eight day strike, Price, \$7.25.

The Drop Extra, Calendar Clock, No. 87, is equal to any that can be offered at the price. The calendar is self-operating, accurate and very useful.

The Drop Octagon, R. C. Clock, No. 88, is one of our latest styles. It has a large dial, keeps perfect time, and is offered at a low price.

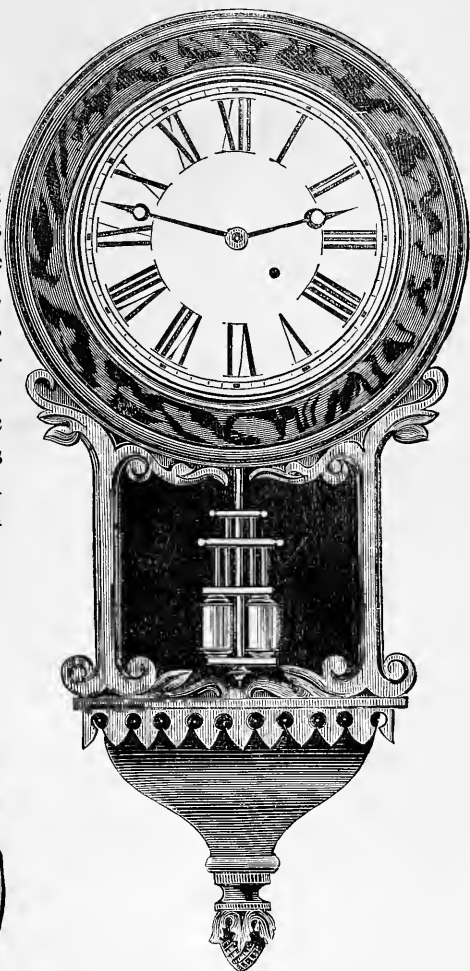
These clocks are of the best American manufacture, highly finished, and **reliable time keepers.**

They are specially designed for use in **class rooms, public halls,** etc., having been selected from among a large number of styles as best suited for that purpose.

Chapel Clock.

This finely finished eight-day clock is elegant in design, and a reliable time-keeper. The polished pendulum is enclosed in a case with glass front. The extra size of its dial will recommend it for use in the largest school rooms, where, besides its usefulness, it will be of value as an ornament.

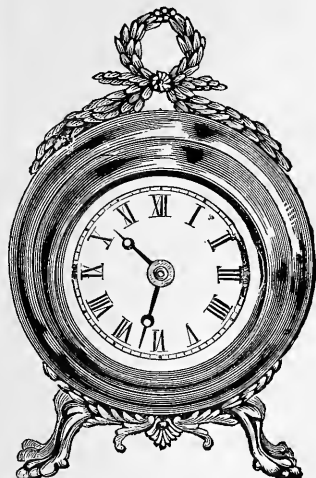
For **chapels, public halls, offices and stores** this clock is well adapted, and is not too large for medium sized class rooms.



EIGHT DAY TIME.

No. 89. Height, 32 inches.

Price, \$10.00.



Desk Clock.

ONE DAY TIME.

No. 90. Lever. Nickel.
Height, 6½ inches.

Price, \$2.50.

This little clock keeps accurate time, is graceful in appearance, and is made to stand on a desk or shelf, or to hang against the wall.



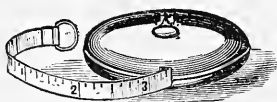
The "Royal" Calendar Clock and Inkstand.

No. 91. One day lever time. Height, $7\frac{1}{2}$ inches. Price, \$7.50.

A most useful and convenient article for the teacher's desk. It is at once a double inkstand, clock and self-operating calendar; and has a pen rack, and a cup for loose pens and pins. It is a good time-keeper, well finished and graceful in design, combining so many useful qualities that a teacher who wishes to be "up to the times" can hardly afford to be without one.

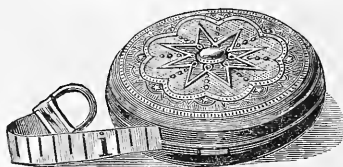
Patent Self-Acting Spring Tape Measures.

With Improved Method of Fastening Ring to Tape.



OVAL CASES.

30.	3	Feet, Silver-Plated, Gravitation Catch,	Each.
31.	5	" " " " "	\$0.40
32.	6	" " " " "	.45
60.	3	Nickel-Plated, Side Catch,	.50
61.	5	" " " " "	.40
62.	6	" " " " "	.45
			.50



PLASTIC CASES.

40.	3	Feet, Plastic, Gravitation Catch,	Each.
41.	5	" " " " "	\$0.40
42.	6	" " " " "	.45
50.	3	" " Edge Catch,	.50
51.	5	" " " " "	.40
52.	6	" " " " "	.45
			.50

PORTABLE BLACKBOARDS.

With a Perfect Slate Surface, made with Eureka Liquid Slating.

Style A.—Slated Cloth or Paper, Mounted on Rollers, with Hooks and Rings for hanging up.



STYLE A.

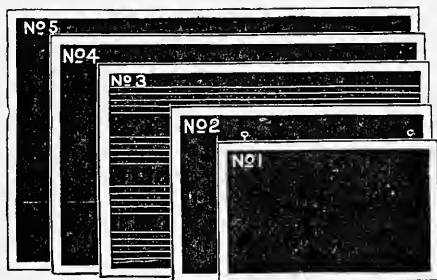
Sizes.		Cloth.	Paper.
No. 1.	2 x 2 feet,	\$0.80	\$0.60
"	2. 3 x 3 "	2.00	1.35
"	3. 3 x 4 "	2.70	1.80
"	4. 3 x 5 "	3.37	2.25
"	5. 3 x 6 "	4.05	2.70
"	6. 3 x 7 "	4.70	3.15
"	7. 4 x 5 "	4.50	3.00
"	8. 4 x 6 "	5.40	3.60
"	9. 4 x 7 "	6.30	4.20

Music Lines, extra, \$1.00.

Any size to order—cloth, 22 cents; paper, 15 cents, per square foot.

Our Flexible Cloth and Paper Boards, as above, have an excellent surface and are very durable. They can be rolled up and carried easily. The Patent **Dustless Crayon** is the best for these boards.

Style B.—Blackboards of Wood, with Ash or Walnut Frame.



STYLE B.

Outside Measure.

No. 1.	2 x 3 feet,	\$3.50
" 2.	2½ x 3½ "	5.25
" 3.	3 x 4½ "	7.00
" 4.	3½ x 5 "	9.50
" 5.	4 x 6 "	12.00

Music Lines, extra (as shown on No. 3), \$1.00.

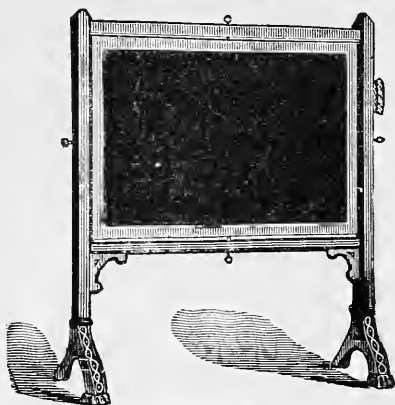
These Blackboards are like style "D" without the standards, and are covered on both sides with an enduring surface of **Eureka Liquid Slating**.

Style C, Blackboard Support.—This Movable Support allows the Board to reverse either way. A shelf beneath forms a convenient ledge for eraser, crayon, etc. It is adapted to all sizes of our Blackboards.

For Blackboards, Nos. 1, 2, or 3,	-	-	-	Ash.	Walnut.
				\$5.00	\$6.00
" " " 4 or 5,	-	-	-	6.50	7.50

Double Reversible Blackboard.

Style D.



STYLE D.

Outside Measure.

No. 1.	3 x 3½ ft., with Stand,	\$12.00
" 2.	3½ x 5 " "	15.00
" 3.	4 x 6 " "	18.00
Music Lines, extra,		\$1.00.

These Blackboards are very perfect and complete. Both sides are finished. They may be reversed instantly, either vertically or horizontally, and are quite firm and steady when in use. A shelf beneath forms a convenient ledge for crayon, eraser, etc.

Style E, Slated Cloth and Paper.—To supply a ready Blackboard anywhere, this Slated Paper or Cloth will prove very acceptable. Teachers and popular lecturers will find it **invaluable**. The surface is as perfect as one of the Eureka Blackboards, and it is *perfectly elastic*.

From three to four feet in width, and of any length desired.

Paper, Black or Green, per square yard,	-	-	-	\$1.00
Cloth, " " " " " "	-	-	-	1.50

School officers and teachers who are unwilling to incur the trouble and expense of applying the Liquid Slating, may secure a good and cheap Blackboard by tacking Slated Paper to the wall, and nailing mouldings or strips of wood around the edge for protection and ornament.

Best Solid Stone Slate Blackboards, all sizes, per square foot, 45 cents.

The Home Blackboard.



For use in the family circle this Blackboard is unsurpassed. It is nicely finished and mounted on a strong adjustable frame, with shelf to hold crayons, eraser, etc.

The writing surface is 2 x 3 feet, supported at a height convenient for children of any age, or even adults.

As a means of home education it will prove of great value. Price, \$5.00.

Portable Blackboard Stretcher.

The handiest thing in the world for Sunday-school workers, Day Schools and Lecturers!

This stretcher consists of a light frame upon which a common cloth or paper flexible blackboard is stretched like a drum head when in use, so as to receive the crayon easily, while folding compactly for carrying or packing.

It is convenient, cheap and durable, and, as it takes the place of the roller and moulding of the ordinary blackboard, adds little or nothing either to its weight or bulk.

Those on cloth thoroughly slated both sides, give two boards in one.



EXTENDED FOR USE.

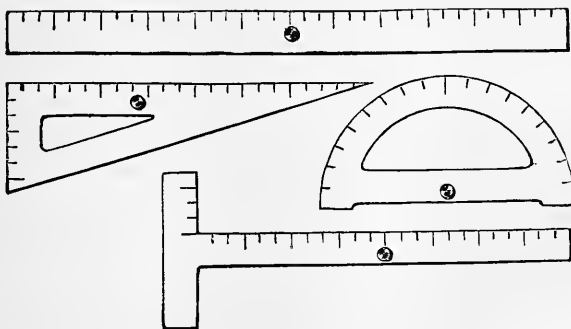


FOLDED FOR CARRYING.

Prices of Portable Blackboards and Stretchers.

Cloth or paper, with rings for hanging.

No.	I.	Sizes.	Cloth. Paper.		No.	6.	Sizes.	Cloth. Paper.	
	1.	2 x 2 feet,	\$1.50	\$1.20		6.	3 x 7 feet,	\$5.60	\$4.05
	2.	3 x 3 "	2.50	1.80		7.	4 x 4 "	4.25	3.25
	3.	3 x 4 "	3.30	2.40		8.	4 x 5 "	5.20	3.70
	4.	3 x 5 "	4.00	3.00		9.	4 x 6 "	6.30	4.50
	5.	3 x 6 "	4.85	3.50		10.	4 x 7 "	7.30	5.20
		Music Lines, extra,				-	\$1.00		



This set of Blackboard Instruments is made of wood, and contains a 36-inch Straight Edge, a 24-inch T Square, a 24-inch Triangle, and a 15½-inch Protractor. **Price per set,** - \$5.00.

Patent Dustless Crayons.



Exact Size of Patent Dustless Crayon.

Eureka! No dust! No dirt! The **advantages** are:

1. It is several times more durable than the common crayon, and therefore **cheaper**.
2. It will not glaze the board nor scratch it.
3. It is **DUSTLESS**, hence the throat and lungs of teachers and scholars are not injured by inhaling the dust.
4. The hands and clothing are not soiled, and work at the board is no longer repulsive.
5. The scholar returns to his seat cheerfully and **cleanly**, instead of "hating to touch anything," and wiping his fingers on his handkerchief or on his clothing.
6. It makes a **firm, clean mark**, and teachers of penmanship and drawing can shade with it from heavy to hair lines perfectly—or can carry it upon the person without inconvenience.
7. The shape and touch of this crayon are attractive, and it "feels good" in the hand.
8. Any teacher who has felt the annoyances we have described, will enjoy the entire freedom from them which this crayon affords.

Samples sent free on application. Price, \$1.00 per gross.

One of many who are now using these Crayons writes: "It gives me great pleasure to say, that the Crayons furnished are greatly superior to any we have ever before used. They leave no dust on the Blackboards, nor do they make the surrounding atmosphere unhealthy by the diffusion of minute particles which the pupils must inhale. Last week, at a meeting of the trustees and teachers of three townships, held in the public school-house in this place, the unanimous verdict rendered was as above."

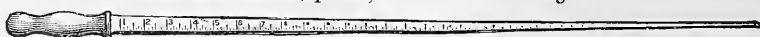
Map and Blackboard Pointers.

With or Without Lineal Measure.

For map drawing and other work requiring the measurement of distances on the board, we furnish pointers with the scale of feet and inches correctly marked. Both styles of the same size and length, and are convenient for common school use on maps or blackboards.



Price of Pointer, plain, - 25 cents.



Price of Pointer, with Lineal Measure, - 30 cents.

Andrews' Dustless Blackboard Eraser.

The Best Ever Made!

A good Blackboard ERASER, of proper size, **handsome** and **durable**, has long been wanted. After much experiment and study, we are at last able to produce an Eraser as near perfection as can be made or desired!



The above cuts illustrate, on a small scale, the "PATENT DUSTLESS ERASER." This Eraser is called for from all parts of the United States, and other manufacturers send us large orders, acknowledging that this is the best and handsomest article of the kind ever sold.

ADVANTAGES.

1. It is made of woven felt, so arranged as to form the rubbing surface of the **ends of the fiber**.

2. It thus **cleans the board more thoroughly**, and is **longer wearing out** than any other Eraser.

3. This is no guess-work. We know it by **actual test** made upon the **Andrews' Dustless** and four others of the latest and best erasers in the market. The names will be given to any one interested. To make the test, a slated block was attached to a lathe, and the eraser held against it by a weight. A fresh blackboard was taken for each eraser, and the weight was the same in each case. The result was that Eraser No. 1 was worn out with 42,000 revolutions; No. 2, in 64,800; No. 3, in 66,000; No. 4, in 78,000; **Andrews' Dustless**, in **120,000!** We are ready to repeat the test in public.

4. By holding the rubbing surface flat against the board, all the dust will be **gathered** and **held**.

5. They are easily cleaned by rapping the rubbing surface lightly on a board. If desired, they may be regularly cleaned by the janitor, outside the room, which is thus kept wholly free from chalk-dust.

6. N. B.—The use of the Patent Dustless Crayons with the **Dustless Eraser**, completely solves the problem of keeping the school-room free from chalk-dust.

Price, \$1.80 per dozen. Sample, only, *mailed* for 15 cents.

White Wool Blackboard Eraser,	$2\frac{1}{2}$ x $7\frac{1}{2}$ inches,	per dozen,	\$2 00
Chamois	" " $2\frac{1}{4}$ x $7\frac{1}{2}$	" "	2 00
Carpet	" " 2 x 7	" "	2 75

The Star Blackboard Easel.



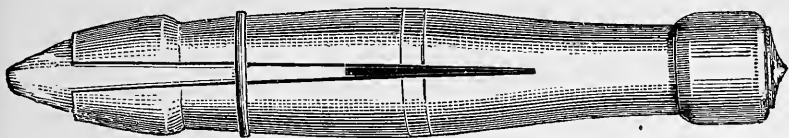
This Blackboard Easel is made for use in class-rooms, lecture-halls, Sunday-schools, and places where **economy of space** is an object. It can be had either with or without the **adjustable map support**, which is attached in such a way that it can be readily removed entirely, or folded down behind the rear standard.

The Easel occupies but little space, and can be folded up in a moment and put away when not wanted.

Price, Ash, with Iron Heads, \$3.00
 Ash, with Iron Heads and Map Support, 4.50
 Black Walnut, with Bronzed Head, 4.00
 Black Walnut, with Bronzed Head and Map Support, 6.00

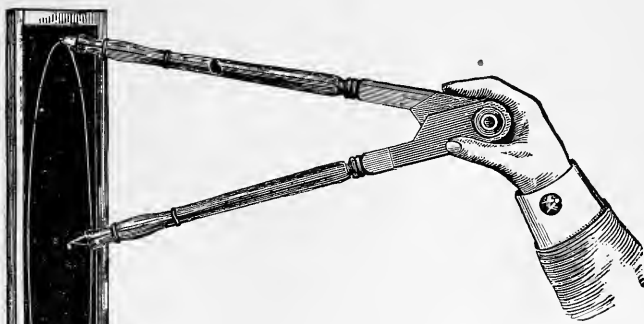
Crayons.

Patent Dustless Crayons,				-	-	-	-	Per gross, \$1.00
White Chalk Crayons,				-	-	-	-	“ .25
Colored “ “ assorted colors,				-	-	-	-	“ 1.25
Pastelle Crayons, assorted colors, 6 in a box,				-	-	-	-	Per doz. boxes, .75
“ “ “ “ 12 “ “				-	-	-	-	“ 1.50
428. Black Conté Crayons, in Wood, No. 1, 2,				-	-	-	-	Per doz., .60
429. “ “ “ “ “ 3,				-	-	-	-	“ .90
430. “ “ “ “ Velours, very soft,				-	-	-	-	“ 1.25
431. White “ “ “ “				-	-	-	-	“ .60
432. Black “ “ square, No. 1, 2, 3, doz. in box,				-	-	-	-	“ .20
433. “ “ “ round, “ 1, 2, 3,				-	-	-	-	“ .40
434. “ “ “ round polished,				-	-	-	-	“ .60
435. White “ “ square, No. 1, 2, 3,				-	-	-	-	“ .20
436. “ “ “ round, “ 1, 2,				-	-	-	-	“ .40



THE CRAYON HOLDER, FULL SIZE.

Where the common chalk crayon is used, a convenient and durable crayon holder is a necessity; but those who use the **Dustless Crayon** will need no contrivance of this kind to prevent soiling their hands while working at the blackboard. The crayon holder illustrated above is adapted to receive an entire crayon (which should be inserted small end first). It is light and pleasant to the touch, and cannot soil the dress or fingers, while it is short enough to be held easily and naturally in the hand, as a crayon. Being made entirely of wood, it **will not scratch** the blackboard. In utilizing the small pieces of crayons which cannot be held in the fingers it will quickly save more than its cost. **Price, per doz., 75 cents.** Sample **mailed** for 10 cents.



Blackboard Dividers.—These Dividers are made to receive and hold crayons in the same manner as the crayon holder. The head is fitted with a strong set-screw that cannot get out of order, and each leg is adapted to receive a crayon, which is frequently a great convenience in drawing parallel lines, and for various other purposes. A piece of wood with a sharp metallic point may be inserted in either leg instead of a crayon, thus rendering the length of the legs adjustable. These Dividers are very strong and not clumsy. **Price, \$1.00.**

EUREKA LIQUID SLATING.

FOR BLACKBOARDS.

The Oldest and Most Popular. The Cheapest and Best.

“The superiority of the *eye* over all other senses, as a means of education, is undeniable, for it has been demonstrated beyond a question. No other system of teaching renders the acquisition of knowledge so pleasant and agreeable to the learner.”—JOHNSON’S *Natural Philosophy*.

Our best educators recognize the importance of having the largest possible blackboard surface for most kinds of illustration. The question is: **How is the best blackboard to be obtained?**

Its **many years’ successful use** in the largest schools in the country justify us in claiming superiority for the **Eureka Liquid Slating**, for **perfect surface** and **durability**. We use it in all our portable blackboards.

It makes a **smooth** and **durable surface** when applied to plaster (hard finish), paper, boards, old blackboards or walls; and either common Chalk, Patent Dustless Crayon or Slate Pencil can be used.

It is superior to the Stone Slate surface, as it **does not become greasy**, and **cannot be scratched**.


It will not **crack**, **blister**, nor **glaze**.

It is **impervious to water**, and cannot scale or rub off.

Pencil and crayon marks can be erased with perfect ease.


It produces a perfect slate surface.

The color will never change; and on the black surface a crayon mark can be seen from any angle in the school-room.

 The hard finish plaster should be *dry* before the slating is put on, otherwise it may flake; which will never happen if the wall has had four weeks for drying. Never put the slating on a damp surface!

Prices of Eureka Liquid Slating.

Pints,	-	-	-	\$1.25	Half-Gallons,	-	-	\$4.25
Quarts,	-	-	-	2.25	Gallons,	-	-	8.00

 Full directions for applying attached to every can. A gallon will cover about 400 square feet.

The slating can be transported safely by express, and it may be applied during school hours, as it dries in a few minutes and hardens in a day.

Fine Flat Brushes for applying Liquid Slating, 50 and 75 cts. each.



Maps and Charts.

Of the various methods of pictorial illustrations, that of Maps and Charts, on a large scale, for the use of teachers and lecturers, is the most serviceable, as it enables the instructor to make his demonstrations to a whole class, school, or public audience of thousands even, with the same time and effort required to give the explanation to one learner alone.

Especially useful and necessary are such Maps and Charts in common schools and academies, where the learners are *beginners*, and consequently their powers of abstraction as yet undeveloped. The "A, B, C's" and "a b ab's," addition and multiplication tables, etc., are now extensively printed in the form of charts, and at once placed before the whole school or class, and are thus taught with a *hundred-fold* greater success than by the old method of calling up one youngster at a time and pointing with a pin at a dozen small, obscure, half-obiterated letters, and telling him "*that is A, that is B, that is C,*" etc., then, shutting the book, sending him to his seat to fold his hands for the next two or three hours, and gaze at nothing but the *blank walls*.

With appropriate diagrams and drawings, properly demonstrated, scholars become *fascinated* in studying those principles and sciences which before they dreaded, and pronounced tedious and irksome.

Maps and Charts, properly placed, give a school-room a cheerful appearance. Pupils become familiar with them by frequent observation, and thus unconsciously store their minds with valuable information, which remains indelible through life.



Charts of Writing.

These Charts are so printed as to present the appearance of **Superior Blackboard Writing.**

Each Capital Letter appears by itself, with analysis and printed description. The letters are of very large size, the capitals and loop letters being a foot in height, and the small letters in proportion, so that they may be distinctly seen across the largest school-room. They are mounted upon a roller in such a manner that one page is exhibited at a time.

Forty-seven Charts, mounted on roller, sold separately or bound together. Size, 19 x 24 inches. Price, per set, \$4.50

Johnson's Solar System Chart.

This beautiful Chart is on blue ground with white lines, exhibiting most effectively, at one view, the Solar System, embracing: the Sun; the Primary Planets and their orbits; the Secondary Planets, or Satellites, and their orbits; Comets and their orbits, and a section of the orbit of the Sun; together with a representation of the Zodiac and many fixed Stars.

It is an **elegant** and **useful** Chart for the school-room. Size, 38 x 42 inches. Price \$5.00

Johnson's Indestructible Alphabet Charts.

The letters on these Charts are printed in bright yellow on a black ground, with a neat border, and are suitable models for the children to fix in their minds. **The Charts** are two feet wide and three feet long, and are made in the same **durable** manner as **Johnson's Philosophical Charts**, described on page 76. They will remain bright and fresh for generations.

No. 1 contains the Capital Letters, Arabic Figures, and Roman

Numerals, - - - - - Price \$2.00

No. 2 contains Small Letters, and Punctuation Points, " 2.00

Monroe's Primary Reading-Charts.

A Treasure for Primary Teachers and for Family Instruction.

The task of Teaching and Learning to Read is made easy and delightful by the use of these charts. We have no hesitation in announcing them as the most useful, practical and economical of all the means yet devised for teaching the first steps in reading. **Arranged for convenient use in three different ways :**

1. By hanging against the wall by strings from each end of binder.

2. By use of a Back-Frame which can be placed on a desk or table (see cut).

3. By use of the Back-Frame on a movable floor easel.

The Charts can be rolled and sent by mail without injury.

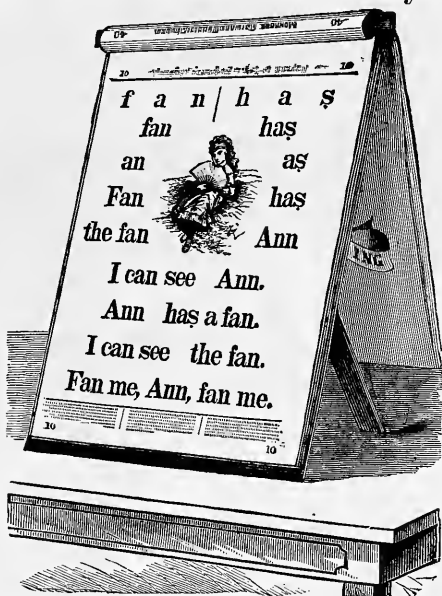
Prices. — Full Series, 50 numbers, \$7.00; Abridged Series, 24 numbers, \$4.50; Back-Frames, 50 cents; Easels, \$1.00.

They may be used as an introduction to **any series of reading-books**, being so arranged that they admit the use of either the **“Phonic,” “Word,”** or **“Alphabetic Method.”**

Full and Explicit Directions are given on the margin of the Charts, so that the most inexperienced teacher may understand how to use them. One chief excellence of the lesson is that it is almost **impossible to use them in the humdrum, drawling style.** The thoughts are natural, and their expression so easy that they almost “say themselves” in a sprightly and animated tone, such as should alone be permitted in the reading of little children.

The Charts comprise fifty numbers, 25 x 30 inches in size. They are beautifully printed on **Manilla Parchment Paper** (stronger and more durable than pasteboard) with large, clear type made expressly for the purpose, and illustrated with pictures drawn with special adaptation to the lessons. They are mounted in the most convenient form for practical use.

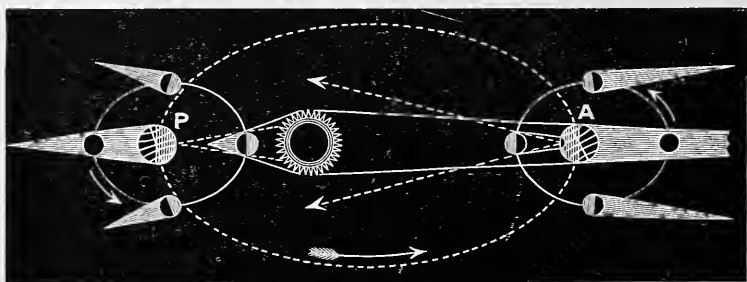
A Single Set will do service for several years.



Johnson's Philosophical Charts.

The rapid diffusion of scientific knowledge, and the continually widening field of its application to the useful pursuits of life, have created an increased demand for new and improved means of teaching the various branches of Natural Philosophy. But no want is more generally felt, especially in Common Schools and Academies, than the necessity of Philosophical Diagrams, in the form of Wall Charts, to supply the absence of the expensive Philosophical Apparatus.

To meet this want is the object of Dr. Johnson's **Philosophical** series of **Indestructible School Charts**.



The method of making these Charts is entirely new. There is neither paper, ink, printing-press, tape, rollers, nor varnish employed in their manufacture.

They are printed by hand, in bright yellow lines, with imperishable oil-colors, on enameled jet-black cloth.

They are as smooth as glass, as soft and pliable as silk, and hang perfectly flat on the wall.

They are as durable as a stone school-house; they could be employed as table-covers, scrubbed with soap and water for years, and *then* be employed as charts. The background is jet-black and far superior to any ink-printing. Each Chart is surrounded with a highly colored border, giving it a remarkably neat and lively appearance.

The mounting consists of an oval stick inclosed in a hem at the top and bottom, thus avoiding paste, binding, nails, and clumsy rollers.

The Series consists of ten Charts, each 33 x 54 inches, embracing more than **five hundred diagrams**, on the various branches of Natural Philosophy as taught in schools. Each diagram being carefully drawn, and standing out in bold yellow lines on a jet-black surface, constituting the most complete, most durable, and cheapest substitute for the Philosophical Apparatus ever published.

These Charts are to Natural Philosophy what blackboards are to mathematics, and what maps are to geography.

Every drawing is made simple as possible, without omitting any part necessary to give a clear illustration of the essential law or principle to be explained.

Each diagram is numbered, and provided with designating letters sufficiently large and bold to be seen across the recitation-room.

CHART I. illustrates Laws of Matter, Force, Motion, and Mechanics, with 44 diagrams.

CHART II. illustrates Hydrostatics and Pneumatics, with 54 diagrams.

CHART III. illustrates Hydraulics, with 39 diagrams.

CHART IV. illustrates the Laws of Heat and Construction of the Steam-Engine, with 43 diagrams.

CHART V. illustrates Optics, with 53 diagrams.

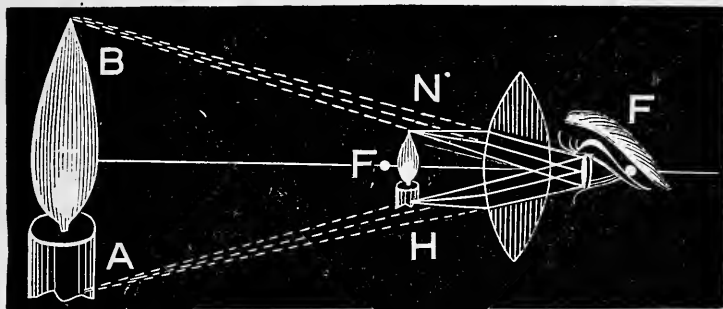


CHART VI. illustrates Optics, Laws of Vision, and the Construction of Optical Instruments, with 50 diagrams.

CHART VII. illustrates Magnetism, with 30 diagrams; and Acoustics, with 33 diagrams.

CHART VIII. illustrates Electricity, Galvanism, Electro-Magnetism, Magnetic-Electricity, Thermo-Electricity, etc., with 66 diagrams.

CHART IX. illustrates the Solar System and many of the General Laws of Astronomy, with 16 diagrams.

CHART X. Astronomical, illustrating the Seasons, Tides, Eclipses, etc., with 23 diagrams.

The price is within the reach of all; so that no school need have excuse for being without these excellent and elaborate Charts.

Price of the entire set, with Key, - - - - - \$40.00

Charts are sold singly, each, - - - - - 4.00

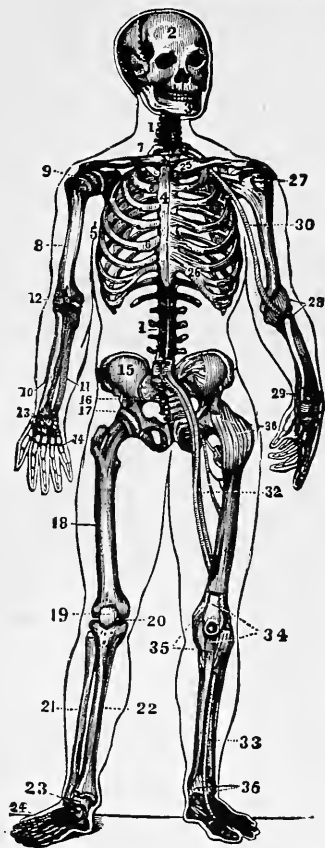
While the intelligent teacher will be able to make invaluable use of the Charts, with whatever text-book he may have in his school, or even without any text-book, yet, to render them more useful to the cause of education, they are accompanied with a Key (**Johnson's Natural Philosophy**), which is an octavo volume of five hundred pages, containing reduced *fac-similes* and an explanation of all the Chart diagrams.

Johnson's Natural Philosophy, Price, - - - \$3.00

Andrews' Anatomical and Physiological Charts.

Drawn, Engraved on Copper and Printed at the Celebrated Lithographic Press of the Messrs. W. & A. K. Johnston, Edinburgh, Scotland.

*Prepared under the Direction of Dr. William Turner,
Prof. of Anatomy in the University of Edinburgh.*



These charts are issued in the best style of the Messrs. Johnston, and are entirely new, and superior in plan and execution to anything of the kind heretofore offered in this country. Their greatest value lies in their **simplicity and clearness**. They consist of complete and beautiful engravings of the human skeleton, ligaments, muscles, etc., as shown in the table below, together with separate drawings of the principal parts on larger scales, and highly magnified views illustrating various interesting structures as they appear under the microscope.

The handbooks which accompany these charts, and to which the figures in the engraving refer, are models of concise explanation, and, with the charts themselves and a good dictionary, will afford any intelligent student a good knowledge of the construction of the human body, and the uses of the various parts. The teacher of the district school, with the aid of these charts, can illustrate in a course of familiar lectures the principles and most attractive

points of the subject—so essential where Physiology is not made a regular branch of study.

The Anatomical Charts consist of

Sheet I.,	about 21 x 27 inches—	The Skeleton;	- - - - -	\$2.00
Sheet II.,	" 21 x 27 "	The Ligaments,	- - - - -	2.00
Sheet III.,	" 21 x 27 "	The Muscles,	- - - - -	2.00
Sheet IV.,	" 21 x 27 "	The Heart and Arteries,	- - - - -	2.00
Sheet V.,	" 21 x 27 "	The Veins and Lungs,	- - - - -	2.00
Sheet VI.,	" 21 x 27 "	The Organs of Digestion,	- - - - -	2.00
Sheet VII.,	" 21 x 27 "	The Nervous System,	- - - - -	2.00
Sheet VIII.,	" 21 x 27 "	The Organs of Sense and Voice,	- - - - -	2.00

Handbook furnished with each complete set without extra charge. Handbooks to accompany single sheets, each 10 cents.

Mitchell's New Physical and Political Outline Maps.

An Ornament of Value to every School-room, Excelling all others in Beauty, Accuracy and Cheapness.

These maps give the general features of POLITICAL and PHYSICAL GEOGRAPHY, including the Political Boundaries and the Principal Localities, the Mountain Chains, the River Courses, the Plateaus and the Plains. These features are all accurately set forth and are so represented as to be recognized at a glance.

THE MOUNTAIN SYSTEMS and CHAINS are represented after the manner employed in topographical maps.

THE PROMINENT SYSTEMS—those which are considered the backbone of a continent—may be distinguished at a glance.

THE RIVER COURSES are strongly and clearly defined.

THE PLATEAUS AND PLAINS are represented by different tints to distinguish one from the other.

BOTH SERIES ARE BEAUTIFULLY COLORED (*either physically and politically, or politically only*), varnished, and securely mounted on muslin, yet light and portable.

Small Series, with or without names, on rollers, comprising :

	Size.	Price.		Size.	Price.
1. The Hemispheres,	24 x 28 in.,	\$1.25	4. South America,	24 x 28 in.,	\$1.25
2. North America,	24 x 28 in.,	1.25	5. Europe,	24 x 28 in.,	1.25
3. The United States,	28 x 48 in.,	2.50	6. Asia,	24 x 28 in.,	1.25
7. Africa, size, 24 x 28 in. Price, \$1.25.					

Only \$10.00 a set. A key gratis with each set.

The lowest priced Wall-maps published.

Large Series, without names, on rollers, comprising :

	Size.	Price.		Size.	Price.
1. The Hemispheres,	50 x 63 in.,	\$3.50	4. South America,	52 x 63 in.,	\$3.50
2. North America,	55 x 63 in.,	3.50	5. Europe,	50 x 63 in.,	3.50
3. The United States,	49 x 74 in.,	4.00	6. Asia,	55 x 63 in.,	3.50
7. Africa, size, 54 x 63 in. Price, \$3.50.					

Only \$20.00 a set. A key gratis with each set.

It will be readily seen that these maps are *far cheaper than any others published*, and we believe that this advantage will be appreciated, especially when the fact is considered that **this low price does not interfere** with their **beauty or accuracy**.

THEY ARE THE HANDSOMEST AND CHEAPEST MAPS PUBLISHED.

THEY ARE THE MOST ACCURATE AND USEFUL MAPS PUBLISHED.

In ordering, please *specify particularly which size, and which style of coloring* is desired. The attention of teachers, school officers and boards of education is invited to both of these series, as we believe that one or the other will be found **adapted to every school**.

Willson and Calkins's School and Family Charts.

These beautiful Charts, 22 in number, each about 24 x 32 inches, and abounding in **colored illustrations**, are designed, in connection with the Manual, to furnish the teacher all requisite aids in the system of Elementary Instruction by "Object" Lessons.

No. 1, introductory to the First Reading-Lessons, contains sixty familiar words, beginning with such as cap, cat, rat, etc., in type large enough to be read thirty feet distant, each word having its appropriate illustration. By the "object" method children learn words by sight, as they learn to recognize objects themselves; and they thus begin to read before they know the letters of the alphabet. This is Nature's method, as opposed to the artificial system formerly in vogue.

Nos. 2 to 6, inclusive, which are occupied by illustrated reading-lessons, furnish also, in connection with the Manual, the proper means of teaching Spelling, and the Rudiments of Composition, Numbers, and Drawing.

Nos. 7 and 8 are devoted to Elementary Sounds and Phonetics; and Nos. 9 and 10 to Writing, Drawing, and the Elements of Perspective.

No. 11 is a Chart of Lines of a great variety of forms and positions, and of Measures of Angles, of Length, and of Capacity; No. 12, of Forms and Solids; No. 13 presents a popular **view of Colors**; No. 14 is a Chromatic Chart, giving, in connection with the Manual, a scientific account of Colors, their combinations, modification, tones, tints, and shades; their contrasts and harmonies in nature, dress, painting, etc., and the various effects produced by placing different colors in juxtaposition.

No. 15, a Colored Zoological Chart, presents **20 Groups of Animals**, designed to illustrate some of the economical uses of the Animal Kingdom. No. 16, also Zoological, gives, first, a general view of the **entire Animal Kingdom**, and of the several Races of Mankind; after which the Classification of the Mammalia (mostly quadrupeds) is presented at length in a series of more than **200 Colored Figures of Animals**. No. 18 concludes the first General Division of Animals—the Vertebrates—with Reptiles and Fishes: **170 Colored Figures**.

♦ No. 19, Botanical—a Chart of Leaves, Stems, Roots, and Flowers—will not only be found admirably adapted for a series of lessons on the *Forms* of some of the most common natural objects, but will lead children unconsciously to a knowledge of the leading principles of Botany.

No. 20 presents the *Classification* of the Vegetable Kingdom, both in accordance with the Linnæan system and the natural method--giving the characteristics of the classes of the former, and grouping some of the leading families of the latter.

Nos. 21 and 22 present a view of the "Economical Uses of Plants," as grouped in the following ten divisions, with colored illustrations: Our Common Plants, Common Root Plants, the Cereals or Corn Plants, Tropical Plants, Medicinal Plants, Plants used for Beverages, for Manufactures, for Coloring, and for Spices.

Willson and Calkins's School and Family Charts,

IN SHEETS.

No. 1.	Elementary,	-	-	-	-	-	Price, \$0.30
" 2.	Reading,	-	-	-	-	-	" .30
" 3.	Reading,	-	-	-	-	-	" .30
" 4.	Reading,	-	-	-	-	-	" .30
" 5.	Reading,	-	-	-	-	-	" .30
" 6.	Reading,	-	-	-	-	-	" .30
" 7.	Elementary Sounds,	-	-	-	-	-	" .30
" 8.	Phonic Spelling,	-	-	-	-	-	" .30
" 9.	Writing Charts,	-	-	-	-	-	" .30
" 10.	Drawing and Perspective,	-	-	-	-	-	" .45
" 11.	Lines and Measures,	-	-	-	-	-	" .30
" 12.	Forms and Solids,	-	-	-	-	-	" .30
" 13.	Familiar Colors, accompanied by a set of Color-Cards,	-	-	-	-	-	" 1.05
" 14.	Chromatic Scale of Colors,	-	-	-	-	-	" .90
" 15.	Animals. Economical Uses,	-	-	-	-	-	" .50
" 16.	Classification of Animals,	-	-	-	-	-	" .50
" 17.	Birds. Their Classification,	-	-	-	-	-	" .50
" 18.	Reptiles and Fishes,	-	-	-	-	-	" .50
" 19.	Botanical Forms, etc.,	-	-	-	-	-	" .50
" 20.	Classification of Plants,	-	-	-	-	-	" .50
" 21.	Economical Uses of Plants,	-	-	-	-	-	" .50
" 22.	Economical Uses of Plants, continued,	-	-	-	-	-	" .50
Price of the entire set, in Sheets,							9.50

Willson and Calkins's School and Family Charts,

MOUNTED.

Nos. 1 and 2,	-	-	-	Price, \$0.90	Nos. 13 and 14,	-	-	Price, \$2.00
" 3 " 4,	-	-	-	" .90	" 15 " 16,	-	-	" 1.25
" 5 " 6,	-	-	-	" .90	" 17 " 18,	-	-	" 1.25
" 7 " 8,	-	-	-	" .90	" 19 " 20,	-	-	" 1.25
" 9 " 10,	-	-	-	" 1.10	" 21 " 22,	-	-	" 1.25
" 11 " 12,	-	-	-	" .90				

Price of the entire set, mounted, - - - - - 12.60

Willson's Object Lessons. Adapted to the Use of the School and Family Charts. By MARCIUS WILLSON. This Manual gives the programme of a graduated series of object lessons, sketches of lessons as guides for the teacher, and a full explanation of the Charts. 12mo, cloth, price, - - - \$1.25.

Whitall's Movable Planisphere

Is a useful guide to the Student in Astronomy, and fills the place of the Map in the study of Geography. It is a **valuable aid** in acquiring the names of the stars, and represents the heavens at any minute or hour of the day. Is of convenient size for hand use, being fifteen inches in diameter. It is made in **two styles**—one in black, with the stars in white, as in Nature; the other is colored, similar to a celestial globe, by which the constellations are **distinctly shown**. A full set of rules, with problems, are printed on the reverse of each. Can be sent by mail. Price, either style, - - - - \$3.00

Charts of the Metric System.

The following Charts, published by the AMERICAN METRIC BUREAU, Boston, Mass., will be furnished at one half the prices here given when the rules of the BUREAU are observed: **cash on delivery in our store.**

Chart No. 1.—A square meter, each part engraved with the greatest care, drawings made of exact size from the government standards. This is the finest illustration of the system ever printed, and is invaluable for schools and public places, it required eight printings, the measures all being given in their natural colors. These charts were prepared at a great expense, and are so handsomely designed and executed that they are considered an ornament for any room. No more valuable service can be done for the cause than hanging them in prominent places. They are furnished at very low prices, because of the fund subscribed for the purpose. The sheets unmounted, \$1.50; on rollers, \$2.00; mounted on cloth, varnished, ash, walnut, or ordinary map-rollers, \$3.00.

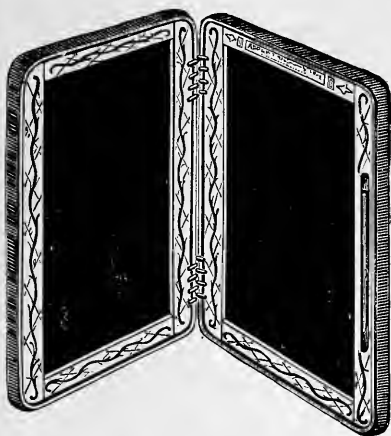
Chart No. 2.—The same accuracy and finish as the first; a meter wide, but only 75 centimeters long. New engravings are introduced in this chart, the iron weights, the metric coinage, the relations of the body to the metric units, the centigrade thermometer, etc., so that it supplements rather than takes the place of the No. 1. It occupies a fifth less wall-space. Same price as Chart No. 1.

Chart No. 3.—Like the others in engraving, colors, etc., but reduced to a sheet 60 x 25 centimeters. It contains the half-meter and double-decimeter, all the weights from the mg. to the K., all the capacity measures from the half-liter to the centiliter, and figures illustrating relations, etc. Bristol-board, 30 cents.

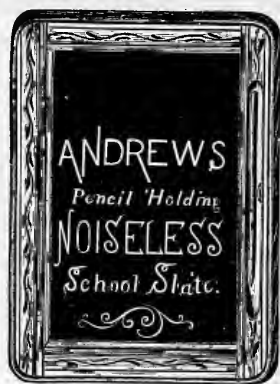
Andrews' Patent Pencil Holding Noiseless Slates.

SINGLE AND DOUBLE.

We offer Andrews' Slates as the best School Slates ever put upon the market. They are an A 1 quality of Slate, cemented into solid hard wood frames, the corners mortised, tenoned, and carefully glued together, surrounded by strong felted or corded bands, dovetailed into the frames, which project beyond the surface of the frame, and render the Slate **noiseless**, if dropped. In one side of the frame is a deep cavity, inclosing a strong spring which receives and retains the pencil when not in use.



"A" Slate, Double.



"A" Slate, Single.

The "A" Slates have the pencil holding groove, and are **ornamented** as represented in the cut, the measures on the frames being in inches on one side, and fractions of a metre on the other. The noiseless rims are of strong cotton web. These Slates are made both single and double.

Price List of "A" Slates:

Size.	Each.		Per Dozen.		Doz. in Case.		Per Case.	
	Single.	Double.	Single.	Double.	Single.	Double.	Single or Double.	
5 x 7,	\$0.30	\$0.60	\$3.60	\$7.20	18	9	\$64.80	
6 x 9,	0.35	0.70	4.20	8.40	12	6	50.40	
7 x 11,	0.40	0.80	4.80	9.60	10	5	48.00	
8 x 12,	0.45	0.90	5.40	10.80	8	4	43.20	

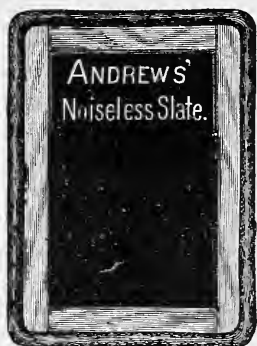
Assorted Cases.

Single. Containing 2 doz. 5 x 7; 3 doz. 6 x 9; 3 doz. 7 x 11; 1 doz. 8 x 12, - - - per case, \$39.60.

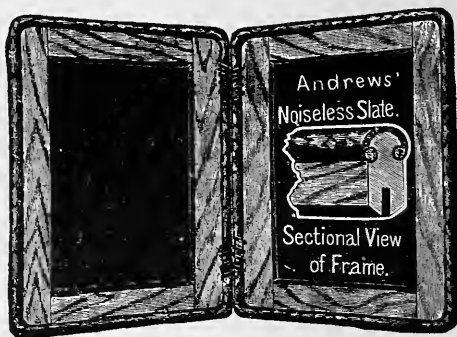
Double. Containing 1 doz. 5 x 7; 1½ doz. 6 x 9; 1½ doz. 7 x 11; ½ doz. 8 x 12, - - - per case, \$39.60.

Andrews' Noiseless School Slates.

Half the noise in the school room is produced by rattling slates. This is all remedied by using the **Andrews' Slates**. They will not rattle in their frames, and the frames will not rattle on the desks. If the Slate is dropped, it is **not broken**, and the noise is muffled and slight.



"B" Slate, Single.



"B" Slate, Double.

The "B" Slates are as **durable** as the "A" Slates, but the frames are plain and without the pencil-holding groove. The noiseless rims are of corded cotton made expressly for this use, and in a variety of colors as bright as cotton is capable of taking. These Slates are made both single and double.

Price List of "B" Slates:

Size	—Each—		—Per Dozen—		—Doz. in Case—		—Per Case—	
	Single.	Double.	Single.	Double.	Single.	Double.	Single or Double.	
5 x 7,	\$0.20	\$0.40	\$2.40	\$4.80	18	9	\$43.20	
6 x 9,	.25	.50	3.00	6.00	12	6	36.00	
7 x 11,	.30	.60	3.60	7.20	10	5	36.00	
8 x 12,	.35	.70	4.20	8.40	8	4	33.60	

Assorted Cases.

Single. Containing 2 doz. 5 x 7; 3 doz. 6 x 9; 3 doz. 7 x 11; 1 doz. 8 x 12, - - - per case, \$28.80.

Double. Containing 1 doz. 5 x 7; 1½ doz. 6 x 9; 1½ doz. 7 x 11; ½ doz. 8 x 12, - - - per case, \$28.80.

For the use of pupils just beginning to write, the Andrews' Slates are sent—when ordered—**ruled** as in ordinary copy books.

The Andrews' Noiseless Slates are not only convenient, but so durable as to be **positively cheaper** than the common or "D" Slates.

Combination Slate Desk.

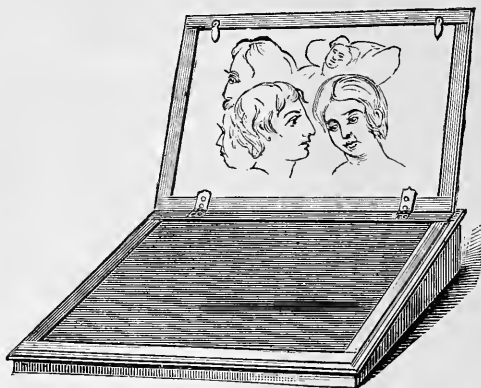


No. 3.

This Slate, finished up in fine style, and richly ornamented, combines both the Desk and Transparent. Size, $7\frac{1}{2} \times 10\frac{1}{2}$ in. Price, each, \$1.00.

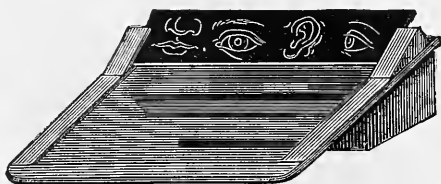
Monitor Slate Desk.

This style consists of a lifting cover, with movable drawing copy slats. It also contains a Ruler, Eraser, and Pencil. This is a useful article, and a favorite with the children. Size, $7\frac{1}{2} \times 10\frac{1}{2}$ inches. Price, each, 50 cents.



No. 4.

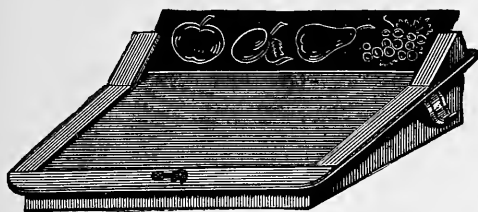
Portable Slate Desk.



No. 5.

The low price at which this is offered, commends it to all. It is not only cheap, but being patterned after the more costly styles, is very neat and desirable. Size, $7\frac{1}{2} \times 10\frac{1}{2}$ in. Price, each, 30 cents.

Improved Slate Desk.



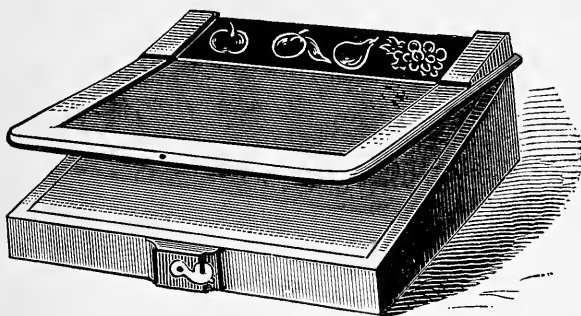
No. 6.

This shape is an improvement on the Monitor. The drawing copies used in these goods were designed and executed by one of our best artists, and are adapted in such a way as to make the

use of them a most pleasant and instructive amusement.

Size, 8 x 11½ in. Price, each, - - - 60 cents.

Combination Writing and Slate Desk.



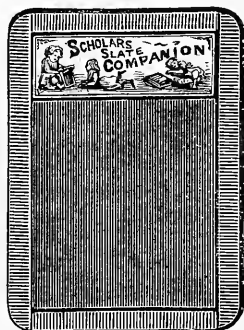
No. 8.

This is a Writing and Slate Desk combined, containing Inkstand, Eraser, Ruler, and Pencils. It is a most useful article, and is finely gotten up in every way, as handy for the House as for the School. Size, 8 x 11½ in. Price, each, - - - \$1.25.

Scholar's Slate Companion.

This new style is a School Slate, with a Scholar's Companion fixed in the opening on the slate, and contains a Well for water, Sponge, and Pencils, and avoids the habit of children spitting on their fingers to clean the slate. A very useful article.

Price, each, - - - - 25 cents.



No. 9.

Pennsylvania "D" School Slates.



Price List.

Size.	Per Dozen.	No. in Case.	Price per Case.
5 x 7,	\$0.50.	18 doz.	\$9.00
6 x 9,	.72.	12 "	8.64
6½ x 10,	.75.	12 "	9.00
7 x 11,	.80.	10 "	8.00
8 x 12,	1.00.	8 "	8.00
9 x 13,	1.20.	6 "	7.20

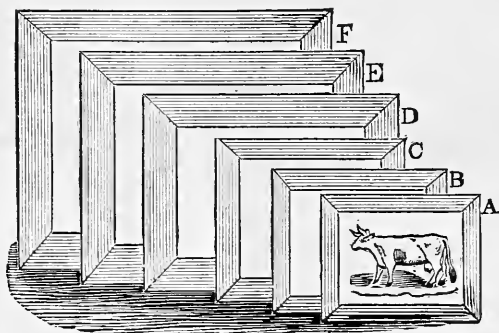
Assorted Cases.

No. 1. Containing 1½ doz. 5 x 7; 2 doz. 6 x 9; 2 doz. 6½ x 10; 3 doz. 7 x 11; 3 doz. 8 x 12. - - - Price, per Case, \$9.50.

No. 2. Containing 3 doz. 5 x 7; 2 doz. 6 x 9; 2 doz. 6½ x 10; 2 doz. 7 x 11; ½ doz. 8 x 12; ½ doz. 9 x 13. - Price, per Case, \$7.50.

N. B.—These Slates have an Oval Edge and Rounded Corner Frame, and are warranted FIRST-CLASS in every particular.

A LIBERAL DISCOUNT when ordered in large quantities.

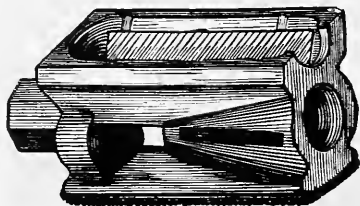


Transparent Slates.

SIZE.	PER DOZ.
No. A, 4½ x 3½,	\$0.50
No. B, 5½ x 4½,	.75
No. C, 6 x 4¾,	1.00
No. D, 6¾ x 5½,	1.25
No. E, 8 x 6¾,	1.75
No. F, 9 x 7¾,	2.50

Universal Sharpener and Eraser.

For Lead and Slate Pencils.

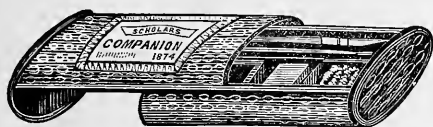


Has Lead Pencil Sharpener, Slate Pencil Sharpener, and Eraser for Slates, and Rubber for Lead Pencil Eraser, all in very compact form, can be carried in the pocket, and will last for years.

Price, per dozen, - - \$2.00

Samples mailed, post-paid, on receipt of 20 cents.

Scholar's Companions.



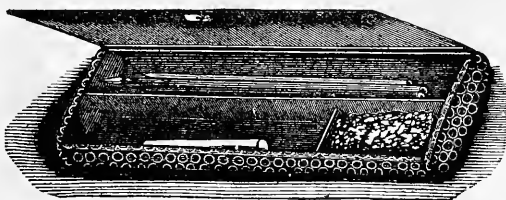
No. 1.

No. 1. Tin Scholar's Companion, oval, new style, pulls out from end. Contains sponge, ruler, slate pencil, lead pencil, etc. 3 in. wide,

7 in. long. Per dozen, - - - - - \$3.00

No. 2. Tin Scholar's Companion, oval style, $1\frac{3}{4}$ in. wide, $8\frac{1}{2}$ in. long. Per dozen, - - - - - \$2.25

No. 3. Tin Scholar's Companion, hinged cover. Contains sponge, ruler, slate pencil, lead pencil, etc. Per dozen, - \$3.00



No. 3.

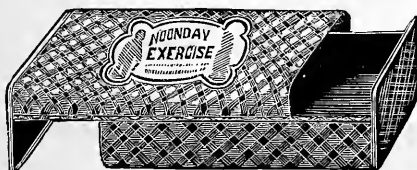
No. 4. Tin Pencil Case, oval, fancy, $7\frac{3}{4}$ in. long, $1\frac{3}{4}$ in. wide. Per dozen, - - - - - \$1.20



No. 4.

No. 5. Tin Pencil Case, new style, oval, 7 in. long, $1\frac{3}{4}$ in. wide. Per doz., 75 cts.

Lunch Boxes.



Tin Lunch Box. New Style. Pulls out at end. - Per dozen, \$3.00

Moore's Folding Lunch Box, - Per dozen, \$6.00



FOLDED ELAT



WHEN OPEN.

These Cuts represent the fac-simile sizes of our German Slate Pencils.



7 inch full, Union papered, pointed, one hundred in a box, price per thousand, \$6.00.



7 inch full, Gold papered, pointed, one hundred in a box, price per thousand, \$6.00.



7 inch full, plain, pointed, one hundred in a box, price per thousand, \$5.00.



6½ inch full, plain, pointed, one hundred in a box, price per thousand, \$4.50.



No. 7, plain, pointed, one hundred in a box, price per thousand, \$3.00.



No. 7, plain, one hundred in a box, price per thousand, \$2.50.



No. 6, plain, one hundred in a box, price per thousand, \$2.00.

SLATE PENCILS.

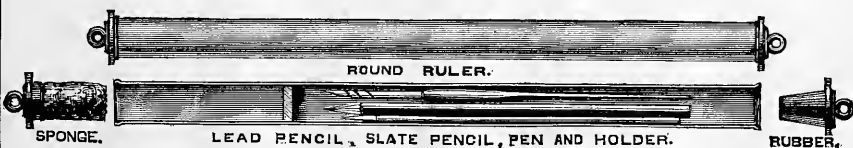
One Hundred in a Box.

German,	No. 6, plain, in paper boxes, per thousand,	-	-	\$2.00
"	" 7, " " " " " "	-	-	2.50
"	" 7, " pointed, in paper boxes, per thousand,	-	-	3.00
"	6½ inch, plain, pointed, in wooden boxes, per thousand,	-	-	4.50
"	7 inch, plain, pointed, in wooden boxes, per thousand,	-	-	5.00
"	7 inch, Gold papered, pointed, in wooden boxes, per thousand,	-	-	6.00
"	7 inch, Union papered, Red, White, and Blue, in wooden boxes, per thousand,	-	-	6.00
"	No. 10, six paper-covered pencils, in wooden boxes, per doz. boxes,	-	-	.30
Soapstone,	6 inch, pointed, in paper boxes, per thousand,	-	-	7.20
"	Pratt's Elite, 6 inch, six pencils painted in fancy colors, in a tin box, per dozen boxes,	-	-	.60
A. W. Faber's,	Composition, 6 inch, pointed, in wooden boxes, per thousand,	-	-	7.20

THE SLATE PENCIL HOLDER.



The cut represents it about half size. It is made of wood, bored to receive a regular four-inch slate pencil—a six-inch pencil broken in halves answers the purpose. Its size obviates the difficulties of other inventions, which are too small for the regular slate pencils offered for sale. Its advantages are too manifest to require enumeration here. Every teacher knows how desirable it is to have a device which is large enough and long enough to prevent the irregular bits of slate pencils from cramping the children's fingers, and injuring them for writing. The pencil is held securely in place. It can be used as a pen holder. **Price,** per dozen, - - - - 60 cents.



Smith's Scholar's Companion, - - - - Per dozen, \$3.00



WRITING PAPERS.

These Papers are manufactured for us exclusively, and hold their own against all competition. They are neatly put up in manilla outside wrappers, with the numbers and weights marked on each package. The inside wrappers are beautifully lithographed. The **Note** papers are in quarter-ream packages, and the **Letter, Cap, Legal, Sermon, Bill, and Ledger** papers in half-ream packages.

TRIUMPH MILLS.

Superfine.

Octavo Note,	5 pounds to the ream,	-	-	Price per ream, \$1.35
Commercial Note,	4	"	"	" " 1.08
"	5	"	"	" " 1.35
"	6	"	"	" " 1.62
"	6	"	"	Long fold, " " 1.62
"	7	"	"	" " 1.90
Packet Note,	7	"	"	" " 1.90
Letter Paper,	8	"	"	" " 2.16
"	10	"	"	" " 2.70
"	12	"	"	" " 3.24
"	14	"	"	" " 3.78
Foolscap,	8	"	"	" " 2.16
"	10	"	"	" " 2.70
"	12	"	"	" " 3.24
"	14	"	"	" " 3.78
"	16	"	"	" " 4.32

WRITING PAPERS.

TRIUMPH MILLS—(Continued.)

Legal Cap,	10 pounds to the ream,	-	-	Price per ream, \$2.70
"	12 " " "	-	-	" " 3.24
"	14 " " "	-	-	" " 3.78
"	16 " " "	-	-	" " 4.32
Sermon Bath,	8 " " "	-	-	" " 2.16
"	10 " " "	-	-	" " 2.70
Broad Bill Cap,	10 " " "	-	-	" " 2.70
"	12 " " "	-	-	" " 3.24
Long Bill Cap,	10 " " "	-	-	" " 2.70
"	12 " " "	-	-	" " 3.24
Ledger Cap,	14 " " "	-	-	" " 3.78

Palisade Mills Manuscript Papers.

Extra Superfine.

These Manuscript Papers are of extra quality, with marginal perforations in each leaf, so that any number of leaves may easily be tied together, forming a neat pamphlet.

Perforated Packet Note,	size $5\frac{1}{2} \times 9$ inches,	-	-	Price per ream, \$2.40
" Sermon Bath,	" $7 \times 8\frac{1}{2}$ "	-	-	" " 2.60
" Letter	" 8×10 "	-	-	" " 3.00

Senate Note and Legal Pads.

This paper is prepared to meet the demand for a **cheap article in convenient form** for the use of Authors, Lawyers, and in Schools and Colleges. It is heavy manilla paper, sized and calendered, so that either pencil or pen may be used, and is intended for use in **Examinations, Compositions, Theses, etc.**, and in preparing any writing which is to be copied afterward. For Arithmetical and Mathematical exercises it is invaluable, as it does not weary the eye as white paper will, and prevents the harsh rattle of slates and pencils. It is made up into PADS of two sizes.

Commercial Note,	240 sheets in each pad, per doz. pads, \$3.00
Legal Cap,	240 " " " " " 6.00

ENVELOPES.

We have constantly on hand a full stock of Envelopes of various sizes and styles, among which are the following. The prices given are for one thousand Envelopes, put up in boxes each containing two hundred and fifty.

				No. 3, Octavo, Note Size.	No. 4, Commercial, Note Size.	No. 5, Letter Size.	No. 6, Business Size.
COMMON	X,	White, Amber, Canary, or Buff,		\$—	\$—	\$1.25	\$1.40
FINE	X,	" " " "		1.35	1.50	1.60	1.75
EXTRA	XX,	" " " "		1.50	1.60	1.80	2.10
" FINE XXX,	"	" " " "		1.80	2.00	2.20	2.50

The Automatic Fountain Pen.



This is undoubtedly the best Fountain Pen that has ever been offered at a low price. It is simple in its construction, not liable to get out of order, and after being filled with ink, can be safely carried in the pocket.

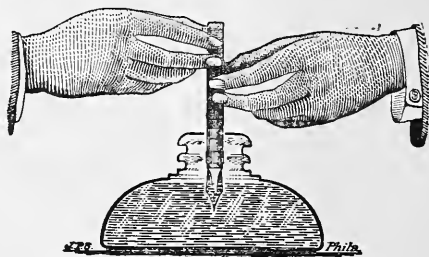
It is a pen, pen-holder, and inkstand, all in one.



CLOSED FOR THE POCKET.

DIRECTIONS:

To fill the holder, withdraw the rubber reservoir, insert the point of the pen in an inkstand, compress the tube, and the ink will be drawn up into it as soon as the pressure is removed. Replace it for use.



No. 1, Small size, for Ladies,	-	-	-	-	price, 25 cents.
No. 2, Large size, for Gentlemen,	-	-	-	-	" 25 "

STEEL PENS.








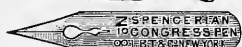











BAKER, PRATT & CO'S.


Extra Fine.

No. 10, SCHOOL, put up in one gross boxes, each box containing 12 smaller boxes with one doz. pens in each, per gross,	\$1.25
No. 14, BANK, bronze,	.75
No. 22, RESERVOIR, bronze,	.70
No. 48, FALCON, " "	.75
No. 75, ANTI-CORROSIVE, -	1.00
No. 92, AMALGAM, -	.70
No. 100, KEYSTONE, white,	.70
No. 150, COLORADO, golden,	.75

The Celebrated Spencerian Steel Pens.

Made of the Best Material by the Best Workmen in England.

No.			Price per Gross.
1. COLLEGE.		Largely used in all Schools, and by the best Penmen, action perfect,	\$1.20
2. COUNTING-HOUSE.		For general writing and Accountants,	1.25
3. COMMERCIAL.		The popular Business Pen,	1.25
4. LADIES.		For Delicate, Fine Hand Writing,	1.30
5. SCHOOL.		Unequaled School Pen,	1.20
6. FLOURISHING.		Off-Hand, Fancy Writing,	1.15
7. QUILL.		Smooth, Easy Writing,	1.40
8. CONGRESS.		Non-corrosive, very durable,	1.40
9. BANK.		Accountants' Favorite,	1.35
10. CUSTOM-HOUSE.		Bold, Free-Hand Writing,	1.50
11. UNIVERSITY.		Smooth and Flexible,	1.50
12. EPISTOLAIRE.		Fine Drawing,	2.25
13. ENGROSSING.		Coarse Hand Writing,	1.20
14. ARTISTIC.		Ornamental Writing,	1.40
15. QUEEN.		Extra Fine Epistolary,	1.30
16. OFFICIAL.		Professional and Commercial,	1.30
17. LITERARY.		Easy, Steady Writing,	1.50
18. LEGAL.		Non-corrosive Manuscript,	1.40
19. MERCANTILE.		For Off-Hand Work,	1.25

THESE PENS combine Elasticity of Movement with Smoothness of Point not found in other Pens, and are a nearer approximation to the real *Swan Quill* than anything hitherto invented. They are used in all the principal *Commercial Colleges* in the United States, and pronounced by Accountants, Teachers, Officials, and Correspondents the **Best Pens Manufactured.**  Sample Cards containing all of the numbers, securely inclosed, will be sent by mail, for trial, on receipt of 25 cts.

QUILL PENS.

In boxes of 24 Pens, full length of Quill. Price, according to quality,
as follows :

ITALIAN, - - - - -	per box, \$0.30
PORTABLE, - - - - -	" .35
LARGE, - - - - -	" .50
OFFICE, - - - - -	" .60
CONGRESS, - - - - -	" 1.10

PENHOLDERS.

Accommodation , steel tips, bronze, - -	per gross, \$0.60
No. 75, Accommodation, steel tips, for ladies, "	.90
No. 2240, Plain, small, gray tips, - - -	1.25
No. 2440, " medium long, black or gray tips, "	1.40
No. 2560, " large, black tips, - - -	1.75
No. 2190, Swell Polished Cedar Sticks, black tips, small "	1.60
No. 2491, " " " " " "medium,"	1.90
No. 2592, " " " " " "large, "	2.10
No. 1, Assortment, first quality, put up one gross in a box, each box containing one dozen each of 12 styles of penholders.	
Price, per box, - - - - -	4.00
No. 2, Assortment, first quality, put up one half gross in a box, each box containing one dozen each of 6 styles of pen- holders. Price, per box, - - - - -	2.00

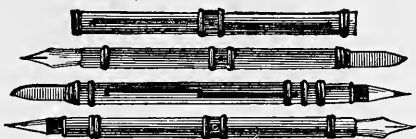
Nickel-Plated Pen and Pencil Cases.

No. 1. Pencil Case, Reverse, with Pencil, - -	per doz, \$0.96
" 2. Pencil Case, Reverse, with Pencil and Rubber, "	1.20
" 3. Pencil Case, Double Reverse, with Pen and Pencil "	1.20
" 4. Pencil Case, Double Reverse, with Pencil, Pen, and Rubber, - - - - -	1.44
" 5. Pencil Case, Double Reverse, with Pencil, Knife, and Rubber, - - - - -	2.00
" 6. Pen Case, Reverse, with Pencil, Pen, and Rubber, "	1.20
" 7. Pencil Case, Double Reverse, with Pencil, Pen, Knife, and Rubber, - - - - -	2.40
" 8. Pencil Case, Double Reverse (Ladies'), with Pen- cil, Pen, and Rubber, - - - - -	1.20
" 9. Pen Case, Reverse, with Miraculous Pen (writing without Ink), - - - - -	1.20

Samples sent by mail on receipt of price.

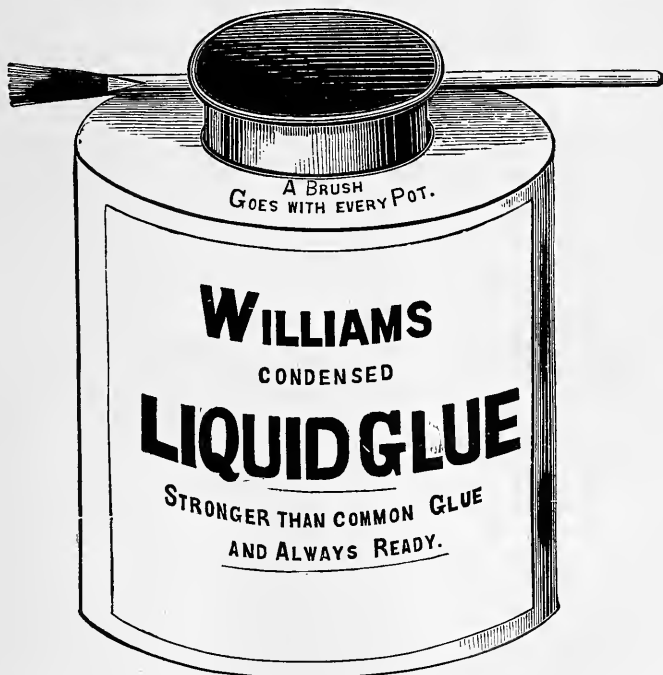
The Lloyd Combination Penholder.

This small article is very useful and convenient. It occupies only the space of a small pencil, and is almost indispensable for the desk and pocket. It is heavily nickel-plated, and will last a life-time. Twelve articles in one. Pencil, Penholder and Pen, Eraser, Pen-Knife, Envelope Opener, Paper Cutter, Rubber and Sewing-Machine Thread Cutter. Can be used for ripping seams, cutting off hooks and eyes, buttons, and for many other purposes. Price, each, 25 cents.

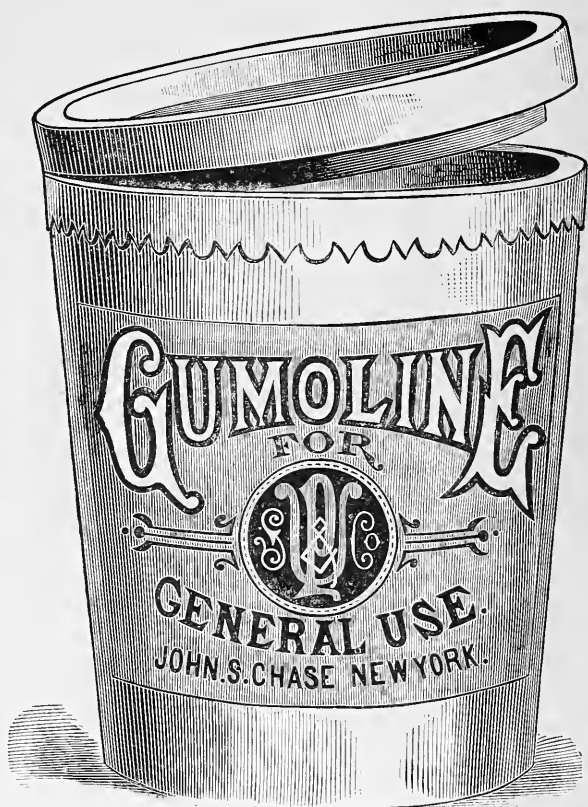


These Cuts represent the "Combination" in its various Forms.

Williams' Condensed Liquid Glue.



This Liquid Glue is stronger than common glue, and is always ready for instant use. It is intended for use in mending broken articles of furniture, crockery, etc., and may be used wherever paste or mucilage are usually employed. It is put up in handsome bottles, with a brush for each bottle. Price, per dozen, - - - - \$3.00



This article is a fine White Paste for use in filling scrap books or for any purpose where paste and mucilage are usually employed. **It will not sour** and will keep in any climate. It is put up in neat glass jars with glass covers, as shown in the cut, and each jar is accompanied by a suitable brush.

Gumoline, per jar, - - - - - 20 cents.

EUREKA PASTE.

Put up in same style as **Gumoline**, but in various sizes, as follows:

Eureka Paste , $\frac{1}{2}$ pints, per jar,	-	-	-	-	25 cents.
" " pints, "	-	-	-	-	50 "
" " quarts, "	-	-	-	-	75 "

WRITING INK.

The acknowledged superiority of Thaddeus Davids & Co's Ink, over that of all other manufacturers, so commends it to the public that it will, without doubt, continue to be the **standard**. The



black Ink is specially adapted for **school use**. It flows freely, and is **jet black** when it leaves the pen. The black, blue, and violet inks are put up in the same style and at the same prices, as follows:

BLACK, BLUE, OR VIOLET.

2 oz. Monitor Stands,	-	-	-	-	-	per doz.	\$0.35
2 oz. Octagon Stands,	-	-	-	-	-	"	0.60
4 oz. bottles,	-	-	-	-	-	"	1.10
6 oz. "	-	-	-	-	-	"	1.40
8 oz. "	-	-	-	-	-	"	1.75
Pint "	-	-	-	-	-	"	3.00
Quart "	-	-	-	-	-	"	5.00
½ Gallon Stone Jugs,	-	-	-	-	-	"	10.00
1 " "	-	-	-	-	-	"	20.00
On Draught,	-	-	-	-	-	per gallon,	1.25

Davids' Mucilage.

MUCILAGE, Pints,	-	-	-	-	-	per doz.,	\$5.50
" Quarts,	-	-	-	-	-	"	10.00
" Gallon Jugs,	-	-	-	-	-	"	36.00
" No. 1, 8 oz., with metallic cap and brush,	-	-	-	-	-	"	4.00
" " 1, 8 oz., flat	"	"	"	"	"	"	4.00
" " 2, 3 oz.,	"	"	"	"	"	"	1.75
" " 3, 3 oz.,	"	"	"	"	"	"	1.50
" Bill Stickers', 3 oz.,	"	"	"	"	"	"	1.25
" On Draught,	-	-	-	-	-	per gallon,	2.50

Carmine and Scarlet Inks.



				CARMINE.	SCARLET.
1 oz. draped stands, - - - -				per doz., \$1.50	
No. 1, 1 oz. RICH FLINT GLASS, -				2.00	\$1.00
" 2, 2 OZ. " " -				3.00	1.50
" 1, 1 OZ. " " Ground Stoppers, "				3.00	1.50
" 3, 2 OZ. " " " "				4.50	2.25
" 4, 4 OZ. " " " "				7.00	3.50
" 5, 8 OZ. " " " "				12.00	6.00
Pints, " " " "				21.00	9.00
Quarts, " " " "				42.00	18.00

Red Ink.

RED WRITING INK, 1 oz., - - - -	per doz., \$0.80
" " " 2 oz., - - - -	" 1.50

Arnold's Writing Fluid.

We keep constantly in stock all sizes of Arnold's Writing Fluid, at the lowest prices :

2 oz. Cones, stone stands, - - - -	per doz., \$0.60
4 oz. Stone Bottles, - - - -	" 1.20
½ Pints, Stone Bottles, - - - -	" 3.00
Pints, " " - - - -	" 5.40
Quarts, " " - - - -	" 9.00

Raven's Ink and Mucilage.

In consequence of the continued demand for goods which can be sold at a lower price than their standard brands, Messrs. T. Davids & Co. manufacture **Raven's Ink and Mucilage**, under trade mark, to supply that demand. We confidently recommend this brand as the very best cheap ink and mucilage made.



RAVEN'S BLACK INK.

*A deep black at first
writing.*

	Per doz.
2 oz. Cones, wide mouth, -	\$0.40
8 oz., - -	1.25
Pints, - -	2.00
Quarts, - -	3.25

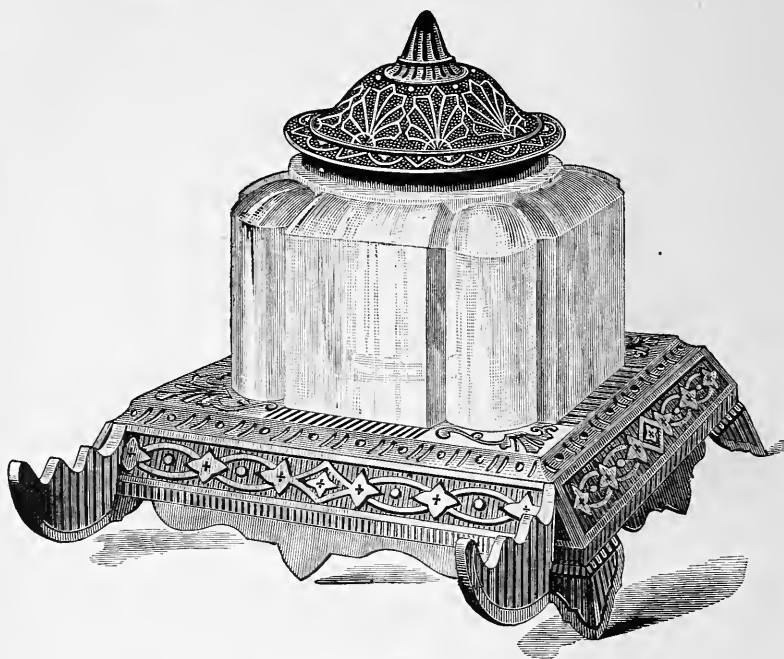
RAVEN'S MUCILAGE.

*Made of pure Gum Arabic,
without adulteration.*

	Per doz.
3 oz. Stands, with cap and brush, -	\$1.00
Pints, - - -	4.25
Quarts, - - -	7.50
Per Gallon, on draught, 2.00	



Inkstands for Teachers' Desks.



No. 1.—Price 50 cents.

GLASS BOTTLE, FANCY BRONZE BASE AND CAP.

In selecting Inkstands for use only those should be chosen that are *durable*; that allow every drop of ink to be used without tipping; that can be readily cleaned; that are not easily upset; that are attractive in appearance, and convenient to use.



No. 2.—THE STAR INKSTAND.

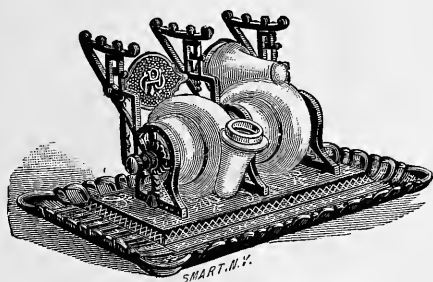
Either Nickel or Gilt, price 75 cents.

Our stock embraces several hundred different styles and kinds of inkstands, from the smallest ink-well for school-desks to the largest and most highly ornamented Inkstands and Inkstand combinations for Counting-room and Library tables. Those

we present here, we believe to be the most appropriate for general use, as they combine all the qualities mentioned above, and are offered at low prices.

Clipper Inkstands.

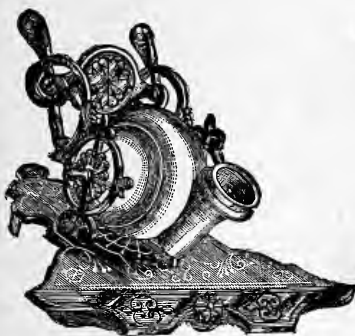
These beautiful Inkstands are deservedly popular because of their convenience and cheapness, as well as the handsome



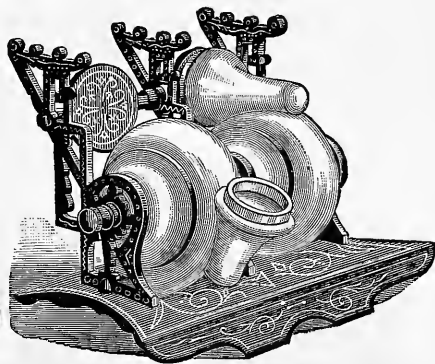
No. 3.—Bronze, \$1.00.

designs in which they are made. The bottle is supported by a pivot at each side, on which it revolves easily, so that a single motion of the hand is sufficient to open or close it. The mouth of the bottle is large enough to admit the pen readily, and allow every drop

of ink to be used without danger of spilling it.



No. 4.



No. 5.

Bronze,	-	\$0.60.
Nickel,	- -	1.25.
Italian,	-	1.25.
Gold Plate,	-	4.50.

Bronze,	- - -	\$1.00.
Nickel,	- - -	1.75.
Italian,	- - -	1.75.
Gold Plate,	- - -	6.00.



No. 6.—Price 50 cents.

FANCY BRONZE BASE AND RACK, GLASS BOTTLE WITH FANCY
BRONZE CAP.

No. 7. Single Bankers' Inkstand, cut glass, with Nickel Tray,	Each, \$2.00
" 8. Double " " " " " "	3.50

Cocoawood Pocket Inkstands.

Either Bayonet Catch or Screw Top.

No. 9. Large Size, - - - - -	Each, \$0.30
" 10. Medium Size, - - - - -	" .25
" 11. Small Size, - - - - -	" .20

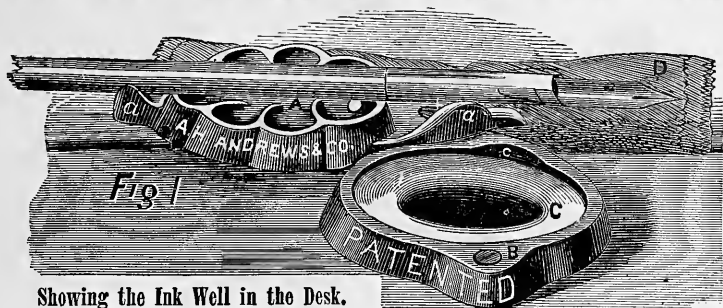
Rubber Pocket Inkstands.

No. 12. Small Size, - - - - -	Each, \$0.30
" 13. Medium Size, - - - - -	" .35
" 14. Large Size, - - - - -	" .40

Desk Weights.

Pound Desk Weights, alternate bands, Nickel and Russia, three colors—Green, Black, and Red, very handsome,	Each, \$0.50
Pound Desk Weights, Japanned, - - - - -	" .20
Paragon " " Nickel, - - - - -	" .40
" " " Gilt, Nickel top, - - - - -	" .40

Andrews' Patent Non-Corrosive Ink Wells.



Showing the Ink Well in the Desk.

Explanations.—A, Cover; a, a, Pen Rack; B, Ring with shoulder, which confines the Glass; C, Glass; c, Slot in shoulder allowing the passage of a lip projecting from the glass; C, D, Pen Wiper (easily made by any pupil).

Two Styles, and Prices to Suit All.

Large Size, having Non-Corrosive Composition Cover and Ring, and large removable Glass, including necessary screws,

Price, per dozen, - - - - - \$3.00

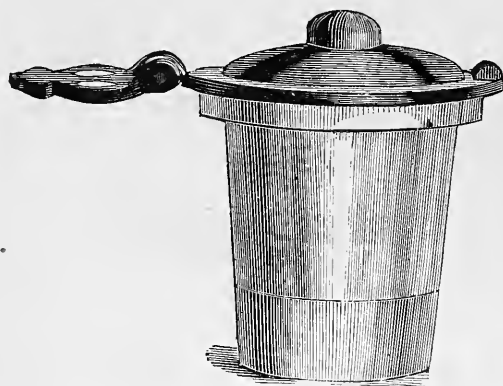
Small Size. Non-Corrosive Cover and Ring, Glass not removable, including necessary screws, price per dozen, - - - \$2.00

Their Points of Superiority are:

1. Extreme simplicity and strength. There is no lock to get out of order. No key is required.
2. The bearing at the rear of the pivot insures a perfect fitting cover and ring. This prevents evaporation of the ink and keeps out dust.
3. The wells are large, and need filling only two or three times during a term.
4. Owing to the shape and thickness of the glasses, freezing will not burst them.
5. The covers turn only one way, and but a quarter of a circle; they cannot be twirled or slammed, or made noisy in any way.
6. They are not liable to be left open.
7. The whole design is tasteful, the cover representing an inverted shell which serves as a pen dish.
8. The wells are low on the desk, and not in the way of books or slate.
9. They can be used in holes where other wells have been.
10. They are the first wells invented having a pen rack attached to the cover.

Adopted for exclusive use by Boards of Education in the cities of Chicago, Philadelphia, Detroit, Milwaukee, Cincinnati, St. Louis, etc.

The Plain Glass Ink-well, with hinged japanned cover, the full size of which is shown in cut No. 1, is always in great demand.



No. 1.

It is made of good glass, and is of the largest possible capacity that the usual bore of school desks will allow.

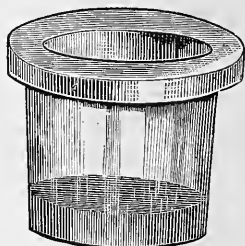
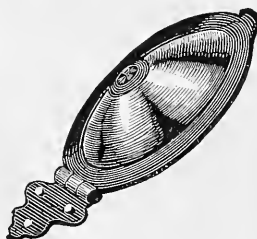
No. 1. Plain Glass Ink-well, adapted to any desk, per dozen, 75 cents.

Japanned Iron Hinged Cover, strong and durable, Per dozen, 75 cents.

No. 2. Plain Glass Ink-well is like No. 1, but the japanned iron cover is of a different design, although the sizes are the same.

Ink-well, per doz., 75 cents.

Hinged Cover, per doz., 75 cents.



No. 2.

Wilbur's Patent Coot Vent, or Ink Cork.

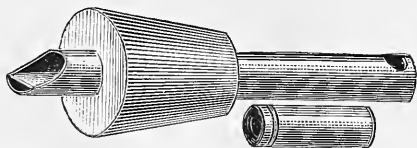
The cause of most of the complaints of thick ink arises from the fact that in pulling the cork it is broken by the cork-screw, or dug from the bottle with a knife, and the bottle left without a cork, or with a piece of one, to evaporate and catch the dust. With the **Coot Vent**

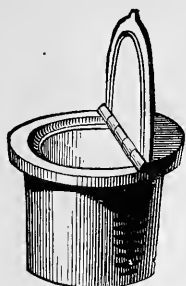
the bottle is corked air-tight, and ANY inkstand can be filled with it without removing the cork or soiling the fingers.

It will last for years.

It is an ornament to

the bottle, keeping it clean, and will preserve the ink as fresh as when first uncorked. It is particularly adapted to warm climates, and for pouring fluids from any bottle. Price, 25 cents each.





The Britannia Glass-lined Ink-well may be had in precisely the same size as ink-well No. 1, although the cut does not so represent it.

The glass lining, or ink-well proper, is protected on all sides by the metallic case.

The size is adapted to the ordinary bore of school desks.

Price, per dozen, - - - - - \$1.50

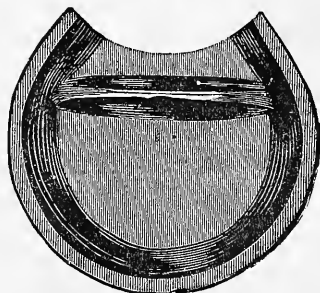
Bell's Patent Ink-well Cover is complete in one piece. The first cut shows the upper side; the second, a section of the lower side (next to the ink). The old-fashioned ink-well cover was, like this, in one piece; but its lower side was flat, and the ink, when the well was full, would draw up to the cover, and when the pupil pushed the cover around to open the well, the ink besmeared over the desk.

This cover thoroughly remedies that difficulty, since it is *scooped out* (as shown in second cut), and *the ridge* (on the lower side), just as the cover is being pushed from the well, raises it up and discharges into the well whatever ink may have been adhering to the cover. This is the leading idea of the patent, and makes this cover a **complete success**.

There being **no hinge**, there is nothing about it that can break. A single screw fastens it securely to the desk, and the cover revolves **noiselessly** on the screw as a pivot. The **disagreeable clatter**, which most teachers have suffered from when the pupils open and shut the wells, *cannot occur* in the use of *Bell's cover*.

It is made of cast-iron, in an ornamented pattern, and is bronzed. Its size is adapted to all sizes of glass ink-wells now made.

It is **noiseless**; it is the **strongest** and **most enduring**, and it is **the cheapest**—the price being, per dozen, 50 cents.



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With Copies.

	Per Doz.
ELLSWORTH'S Primary Tracing Series (3 Nos. A, B, and C),	\$1.00
“ Intermediate Series (4 Nos. 1, 2, 3, and 4), -	1.00
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“ Writing Portfolios, Form 1, Large, Double, -	.75
“ “ “ “ 2, Small, “ -	.60
“ “ “ “ 3, Large, Single, -	.50
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“ “ “ boards, - - - “	.40

Without Copies.


No.	Size.		Per Doz.
2½,	6⅞ x 7½,	10 leaves, square quarto, printed covers, fine paper, - - - - -	\$0.30
3,	7 x 8⅜,	12 leaves, square quarto, printed covers, fine paper, - - - - -	.40
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25,	6 $\frac{1}{8}$ x 7 $\frac{1}{2}$,	10 leaves, square quarto, double lines, printed covers, fine paper, - - - -	\$0.30
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15,	"	12 leaves, oblong quarto, single lines, lithographed covers, extra fine paper, -	.45

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DINSMORE'S, New Elementary, - - - - -	\$0.60
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" Exercise Book, board covers, - - - - -	5.52
" " " paper " - - - - -	2.88

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318,	6 $\frac{1}{8}$ x 7 $\frac{1}{2}$,	Cap quarto, 20 leaves, cloth backs, comb marble paper sides, - - - -	\$1.00
320,	7 x 8 $\frac{1}{4}$,	Crown quarto, 24 leaves, cloth backs, marble paper sides, - - - -	1.20
322,	"	Crown quarto, 32 leaves, morocco backs, comb marble paper sides, - - - -	1.65
324,	"	Crown quarto, 24 leaves, cloth backs, printed press board sides, - - - -	1.40
325,	"	Crown quarto, 24 leaves, morocco backs, fancy paper sides, - - - -	1.60
330,	"	Crown quarto, 32 leaves, morocco backs, comb marble paper sides, - - - -	1.90
332,	"	Crown quarto, 36 leaves, quarter bound, cloth backs, comb marble paper sides, -	2.00
334,	"	Crown quarto, 48 leaves, quarter bound, press boards, - - - -	2.25
335,	7 $\frac{1}{8}$ x 8 $\frac{1}{2}$,	Crown quarto, 48 leaves, half bound, fancy paper sides, extra, - - - -	3.75
338,	5 x 7 $\frac{1}{2}$,	Demy 8vo, 24 leaves, morocco backs, fancy paper sides, - - - -	1.25

Composition Books.

No.	Size.		Per Doz.
339,	5 x 7½,	Demy 8vo, 48 leaves, morocco backs, half bound, fancy paper sides, - - -	\$2.75
340,	7¾ x 9⅝,	Demy quarto, 32 leaves, morocco backs, comb marble, fancy paper sides, - - -	2.87
		<i>Ornamented with fine chromo.</i>	
318C,	6⅛ x 7½,	Cap quarto, 20 leaves, cloth backs, marble paper sides, fine, - - - -	1.25
319C,	7 x 8¼,	Crown quarto, 24 leaves, cloth backs, marble paper sides, fine, - - - -	1.40
327,	"	Crown quarto, 24 leaves, cloth backs, fancy paper sides, with gilt border, superfine, -	1.70
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School Records and Diaries.

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" 13.	Teachers' Complete Pocket Record, 4¼ x 7 in., -	.55
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" 16.	School Diary, No. 1 (for pupils), to last six months; 5 perfect; 3 good; 1 passable; 0 failure, 4 x 6¾ in., <i>per dozen</i> , - - - - -	.85

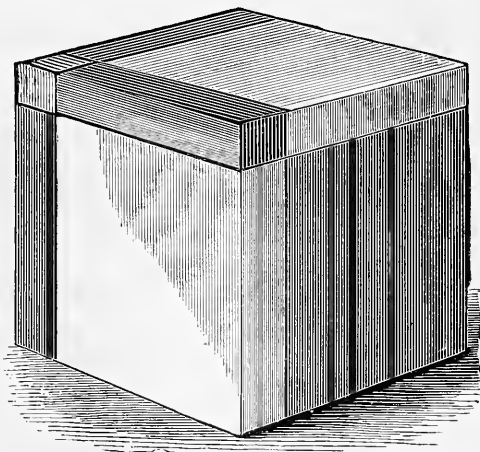
BOOK-KEEPING BLANKS.

Day Books, Journals, Ledgers, and Records or Ciphering Books.

No.	Size.		
850	$7\frac{7}{8} \times 12\frac{5}{8}$	Cap , marble paper covers, 10 sheets, per dozen, - - - - -	\$2.00
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BRYANT & STRATTON'S Blanks for Common School Book-Keeping, per set of five, - - - - -			
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FULTON & EASTMAN'S Blanks, complete, per set of six, - - - - -			
" " " for merchant, per set of three, - - - - -			
" " " for mechanic, per set of three, - - - - -			

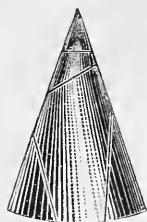
CUBE ROOT BLOCKS.

The question of **Square and Cube Root** can be solved in no other way so easily as by illustrating with blocks of this kind. One of them should be in the hands of **every teacher** who attempts to instruct pupils in that usually troublesome part of Arithmetic.



No. 25.

No. 25.	Double, for carrying illustrations to three or more places, boxed, - - - - -	\$1.10
" 26.	Single, for carrying illustrations to two places, boxed, - - - - -	.75
" 27.	Sixty-four inch Cubes, for same purpose, boxed, - - - - -	3.00

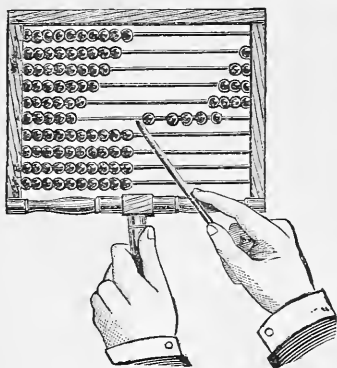


No. 28.

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- No. 28. Dissected Cone, with Pins, showing the
 Circle, Ellipse, Parabola, and Hyper-
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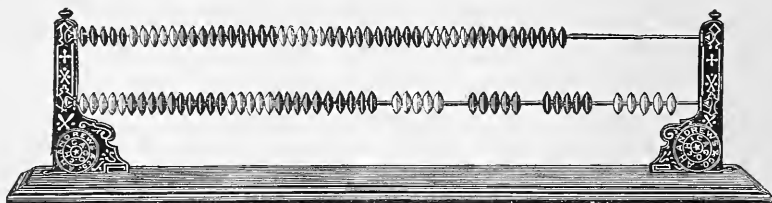
Numeral Frames.



The Numeral Frame is not only a very popular but an almost indispensable aid in teaching children to count, and in giving them correct ideas of number.

This frame is used in Primary, Intermediate, and Grammar Schools, and greatly assists in teaching to count, add, subtract, multiply, and divide, and is especially useful in *illustrating fractions, the squares and roots of numbers.*

- No. 21. Nicely made and varnished, having 144 colored balls, \$1.25
 " 22. " " " " 100 " 1.00



- No. 22½. Numeral Frame, for Table or Desk Use, - - \$4.00

Ivory Paper Folders.

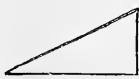
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|--------|-----------------------|--------------------------------|---|-------|--------|
| No. 1, | With Rosewood Handle, | 7½ inches long, | - | each, | \$0.35 |
| " 2, | " | 8 | - | " | .40 |
| " 3, | " | 8¾ | - | " | .45 |
| " 4, | " | 9¼ | - | " | .55 |
| " 6, | Standard, | without handle, 6 inches long, | - | " | .15 |
| " 7, | " | " 7 | - | " | .25 |
| " 8, | " | " 8 | - | " | .30 |
| " 9, | " | " 9 | - | " | .35 |
| " 10, | " | " 10 | - | " | .45 |

Object-Teaching Forms and Solids.

No. 20. Thirty-six Forms in a neat wooden box, hinged, - \$3.25



Triangle.



Right-angled Triangle.



Equilateral Triangle.



Isosceles Triangle.



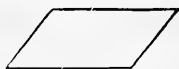
Parallelogram or Rectangle.



Trapezium.



Rhomb.



Rhomboid.



Square.



Pentagon.



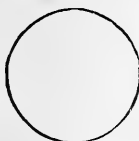
Hexagon.



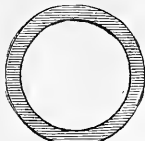
Heptagon.



Octagon.



Circle.



Ring.



Crescent.



Spherical Triangle.



Oval.



Ellipse.



Semi-circle.



Segment.



Quadrant.



Sector.

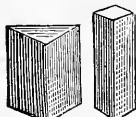


Kite.

SOLIDS.



Cube.



Prisms.



Cylinder.



Pyramid.



Cone.



Tetrahedon.



Sphere.



Hemisphere.

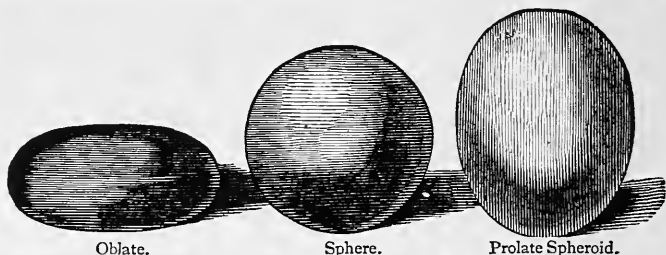


Spheroid.

Geometrical Forms—Extra Large.

Prepared for the Lecture or Class Room.

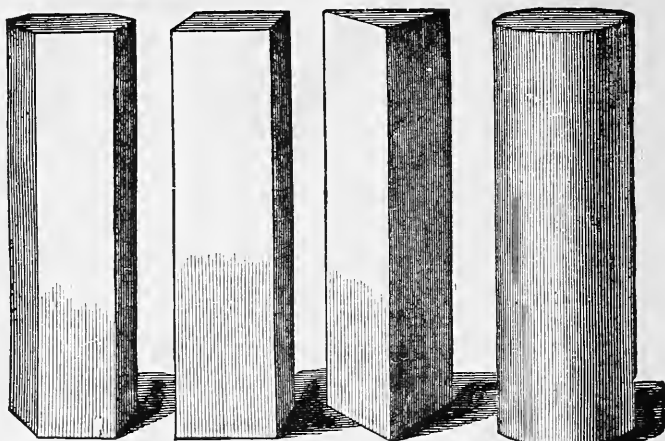
No. 23. In a neat wooden, hinged box, - - - - \$4.00



Oblate.

Sphere.

Prolate Spheroid.

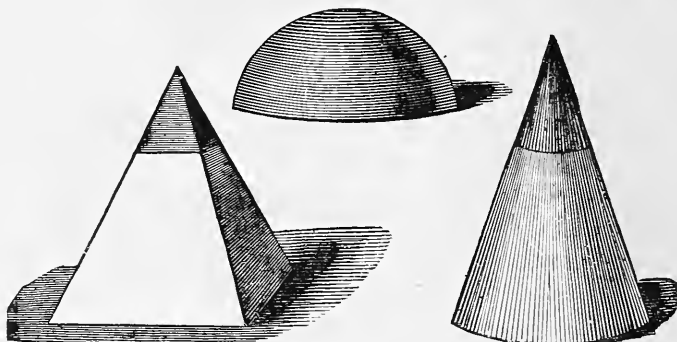


Hexagonal Prism.

Prism.

Triangular Prism.

Cylinder



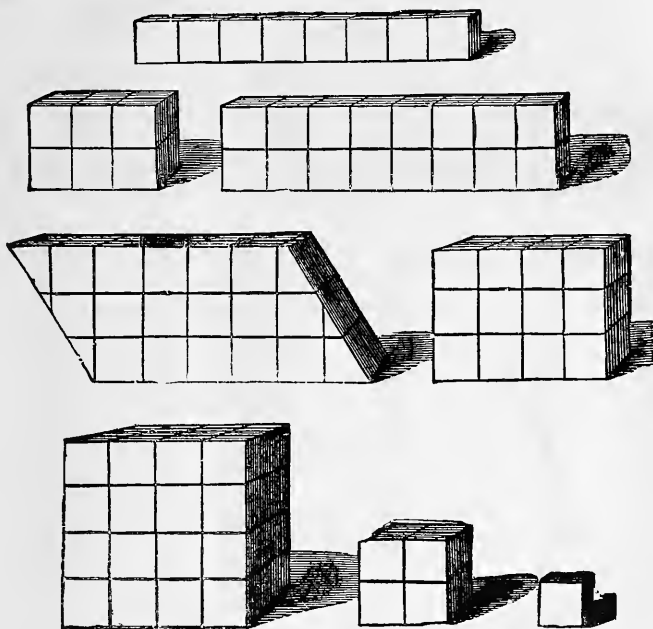
Pyramid and Frustum.

Cone and Frustum.

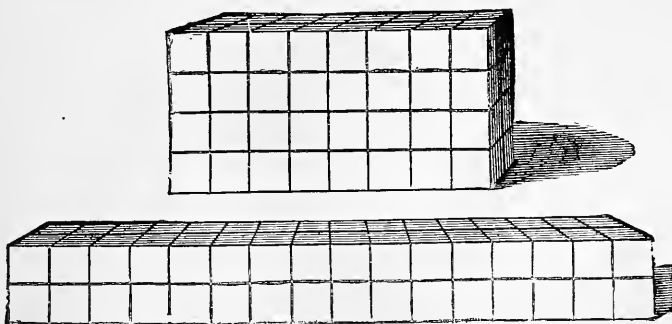
All these forms and solids, when it is practicable, have names printed on their face, besides being fully illustrated inside the cover of the box containing them. Besides those represented above, the set contains Oblique Cylinder, Cube, Hexagonal Pyramid, and Rhomb.

Geometrical Forms with Arithmetical Solids.

No. 24. In a neat wooden, hinged box, - - - \$3.00



Cubes.



Parallepipeds.

These forms and solids convey more definite ideas of square and solid measure than pages of explanation or drawings could. By their use all possibility of error in conception and definition is avoided, since they are tangible.

AMERICAN DRAWING MODELS.

For Common Schools, Drawing Classes, and Schools of Art and Science.

Designed by WALTER SMITH, Art Master; Professor of Art Education in the City of Boston Normal Art School, and State Director of Art Education for the State of Massachusetts.

The increasing demand for Art Education, and its general adoption as a branch of common school instruction, has rendered it necessary that a supply of proper models with which to convey this instruction should be produced. Designs have been obtained from Mr. Walter Smith, Director of Art Education for the State of Massachusetts, from which we are now prepared to furnish **complete sets of models**. These are made from the best materials in a thorough manner; and by having extensively fitted up special machinery, the work is produced with accuracy at a much less price than would be possible otherwise. Each model being made to dimensions, these sets are equally suited to all kinds of **Free-Hand, Instrumental, and Perspective Drawing**.

Set No. 1 consists of the following pieces, selected from the most useful and beautiful geometric figures and curved forms:

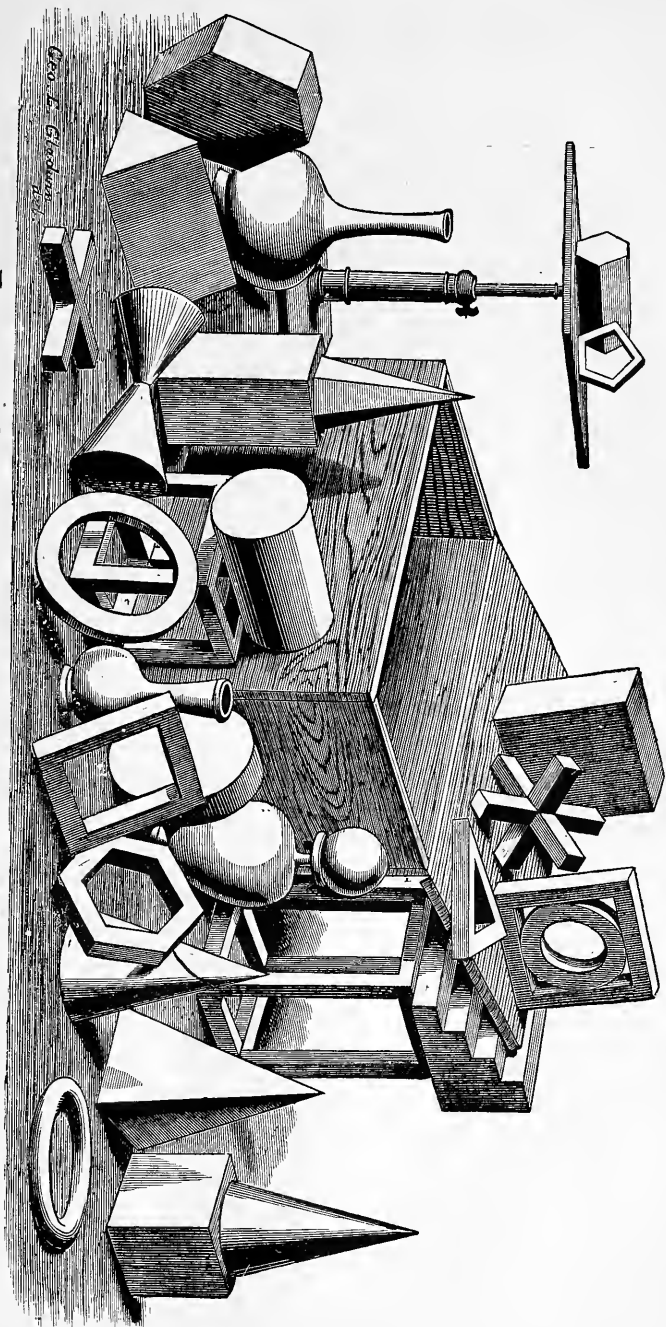
- | | |
|---|--|
| 1. <i>Sphere</i> . Four inches diameter. | 15. <i>Cross</i> . Six inches, made of seven-eighths inch stuff. |
| 2. <i>Cone</i> . Base four inches diameter, altitude eight inches. | 16. <i>Triangular Frame</i> . Equilateral Triangle of six inches side, seven-eighths inch stuff. |
| 3. <i>Cylinder</i> . Base four inches, altitude eight inches. | 17. <i>Square Frame</i> . Six inches square, seven-eighths stuff. |
| 4. <i>Cone, in Sections</i> . Base four inches, altitude eight inches. | 18. <i>Pentagonal Frame</i> . Outer Pentagon inscribed in a circle of six inches, seven-eighths stuff. |
| 5. <i>Cube</i> . Side four inches. | 19. <i>Hexagonal Frame</i> . Side of three inches, seven-eighths inch stuff. |
| 6. <i>Oblong Block</i> . Four inches square, length eight inches. | 20. <i>Circular Frame</i> . Square in section, six inches diameter, seven-eighths inch stuff. |
| 7. <i>Triangular Prism</i> . Side of base four inches, length of prism eight inches, base equilateral. | 21. <i>Circular Ring</i> . Circular in section, six inches diameter. |
| 8. <i>Hexagonal Prism</i> . Diagonal of base four inches, length of prism eight inches, base regular. | 22. <i>Double Cross</i> . Six inches, seven-eighths inch stuff. |
| 9. <i>Rectangular Pyramid</i> . Side of base four inches, altitude eight inches. | 23. <i>Skeleton Cube</i> . Six inches side, seven-eighths inch stuff. |
| 10. <i>Hexagonal Pyramid</i> . Diagonal of base four inches, altitude of pyramid eight inches. | 24. <i>Oblong Frame</i> . Twelve inches long, six inches square, seven-eighths inch stuff. |
| 11. <i>Square Block</i> . Six inches square, two inches thick. | 25. <i>Square Frame and Ring</i> . Six inches square, seven-eighths inch stuff. Circle inscribed. |
| 12. <i>Disk</i> . Six inches diameter, two inches thick. | 26. <i>Hexagonal Disk</i> . Two inches thick, six inches diagonal. |
| 13. <i>Flight of Four Steps</i> . One inch rise, one and one-half inches tread, width six inches. | 27, 28, 29. <i>Three Selected Vases</i> . |
| 14. <i>Double Cone</i> . Altitude eight inches, diameter at junction of cones one inch, bases of cones four inches. | 30. <i>Adjustable Model Stand</i> . Top and bottom eleven and one-half inches square. |

Price, complete, with box, - - - - - \$20.00

Set No. 2.—A box containing ten Wooden Vases, duplicated from the Greek originals. **Price**, with box, - - - - - \$10.00

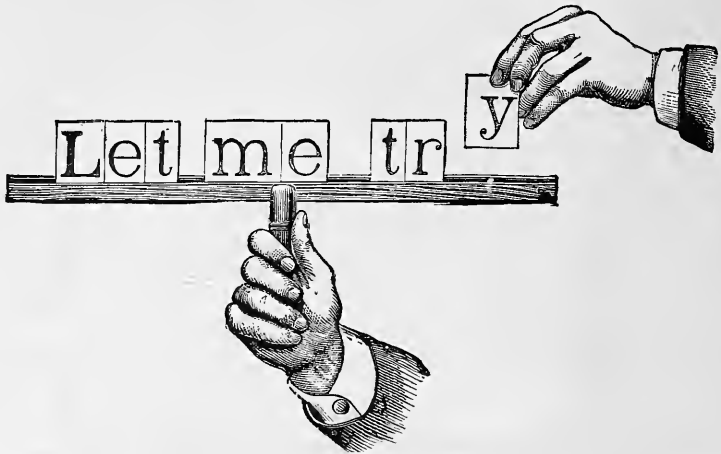
Set No. 3.—Four Large Models for lectures and instruction to classes: 1. Cube, fifteen inches side. 2. Cone, with base twelve inches, altitude eighteen inches. 3. Cylinder, base twelve inches, altitude eighteen inches. 4. Hexagonal Prism, base twelve inches, length twenty-four inches. **Price**, without box, \$13.00; with box, \$15.00

Extra Model Stands, each, - - - - - 2.50



American Drawing Models.

Set No. 1.—Represented in above cut. **Price**, complete, with box, \$20.00
 Set No. 2.—Box containing ten Wooden Vases, duplicated from the Greek originals. **Price**, with box, 10.00



The Spelling Stick is a simple device, and most useful for teaching spelling to Primary Classes. It consists of a piece of wood grooved for holding letters, and has a handle as shown in the cut. It is accompanied by letters on cardboard, and is an efficient instrument for instruction in the arrangement of letters and their combination into words. An entire class can be taught by it as readily as a single pupil.

Spelling Sticks, - - - - - Each, \$0.25

Fonts of Letters on cardboard for same, in box, - - - .50

ALPHABET BLOCKS.

					PER SET.
No. 000,	Flats,	Natural Wood,	12 pieces,	in paper box, -	\$0.10
" 00,	"	"	18	album " -	.18
" 0,	"	"	18	paper " -	.15
" 1,	"	"	32	" " -	.25
" 2,	Half Cubes,	"	32	" " -	.30
" 3,	Flats,	Enameled,	27	wooden frame box,	.60
" 4,	Half Cubes,	Enameled,	27 pieces,	in wooden box,	.75
" 6,	"	"	Natural Wood,	24 pieces in wooden frame box, - - - -	.45
" 7,	Illustrated Cubes,	16 pieces	in wooden box,		.60
" 8,	"	"	18	" " "	.90
" 9,	"	"	20	" " "	1.25
" 10,	Combination Puzzle,	Building and Alphabet,	32 pieces	in wooden frame box, - - -	.50
" 12,	Illustrated Cubes,	Natural Wood,	16 pieces,	plaid, paper box, - - - -	.40

						PER SET.
No. 14,	Kindergarten,	Spelling and Building, Natural				
	wood,	16 pieces in paper box,	-	-	-	\$0.20
" 15,	Kindergarten,	Natural Wood, 22 pieces in wood-				
	en frame box,	-	-	-	-	.40
" 80,	Illustrated Cubes,	12 pieces in wooden box,				.65
" 80A,	Cubes,	Natural Wood, 12 pieces wooden frame box,				.50
" A,	Chromatic,	12 pieces in wooden frame box,	-	-	-	1.20
" B,	"	12	"	"	"	.90
" C,	"	9	"	"	"	.70

Jeffers' Panoramic Apparatus.

For Teaching Reading by Object-Lesson Exercises, with a Manual of Directions.

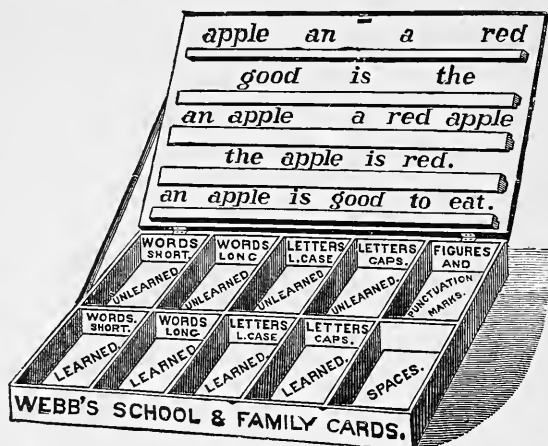


This is an entirely new apparatus for presenting the first lessons of reading in accordance with an important principle of Elementary Education, namely—*during the first steps let the Child's attention be occupied with a single object only at a time.* By means of this apparatus a picture, a word, or a single letter may be seen at once, or an entire sentence can be shown at the same time. It can be quickly changed and adjusted to a letter, word, or sentence by the teacher, or even by the youngest pupil in school. The type is so large and plain that the words can be easily read across a room twenty-five feet in width. The words and objects are illustrated by large colored pictures, which may be seen by fifty pupils at the same time. By means of this apparatus, and a good blackboard, a class of fifty children may be taught to read several hundred words that are in common use, at sight; also sentences containing words of two and three syllables, within two months. Its use is highly interesting to the pupils, by combining amusement with instruction. Price, - - - - - \$15.00

Webb's School and Family Cards.

For Teaching Reading.

These dissected Cards, now rapidly taking the place of all other Cards for Teaching Reading to Primary Classes, have the following advantages:



The words are printed on blocks, and are to be "set up" by the pupil, in the rack in the cover.

There are about 100 words, duplicated, with a sufficient number of sets of the alphabet, numerals, punctuation marks, etc., to enable the

pupils to form any easy sentence. This one set of Cards thus includes **all other Cards**, since the sentences on **ALL** the ordinary cards in use may be "set up" as desired, in the rack.

There are **twenty beautiful lithographs** accompanying the Cards, in themselves affording amusement and instruction to the pupils, and furnishing pleasing subjects for lessons to be "set up" in the rack.

In the use of the ordinary printed reading chart, **EVERY TEACHER KNOWS** that the pupils almost immediately **COMMIT THE SENTENCES TO MEMORY**. An intelligent child who has been a fortnight reading from such charts, will read them as well with his eyes shut as in any other way if he knows which sentence is called for, while if he sees the same words in a strange place, he may not recognize them at all.

WEBB'S SCHOOL AND FAMILY CARDS *completely remove this trouble, as each word is complete by ITSELF, and will be known WHEREVER SEEN.*

The set comprises Webb's First Lessons in Language and Drawing, Webb's School and Family Cards, Webb's Picture Lessons. All in neat walnut box, strong and durable, - - - \$8.00
Webb's Picture Lessons, sold separately, - - - 1.25

The Van Everen Adjustable Book Covers.

For Colleges, Societies, Schools, Public and Private Libraries.

Each cover is made of **strong Manila paper**, and in four parts, fitting the four corners of a bound volume.

It is designed to supply Schools, Libraries, and book users generally, with a **cheap, neat, and convenient** book cover, already cut, folded, gummed, and in part sealed—thus affording, at a trifling cost, a **complete book-cover** that **FITS ANY BOOK!**

They are put up in neat paper boxes, one hundred in a box.

Price List and Description of Sizes.

	Per 100.
Primary. For the smallest Sunday School Library Books,	\$1.50
Size A. Is the Cover for general use. It fits 18mo, 16mo, or 12mo, or books varying in length from 8¾ in. to 5½ in.	
The best Advertising size,	2.00
Size B. For Law, Medical, and 8vo books, Intermediate Geographies and College text-books; suitable for books 10 x 7 x 2 inches or smaller,	2.80
Size C. Fits the largest Geographies, 4to books 13 x 18 in., or less,	3.75

These book covers have been in use for many years and are popular. They are the only supplementary covers that can be **successfully and economically applied** to different sizes of School and Sunday-School Library books.

Perforated Library Numbers.

The **NUMBERS** size "25" are printed in black, on tinted paper, for post-office boxes, school-desks, hat-hooks, library shelves, and books. Furnished face-gummed for glass.

Size "252" for books, shelves, reports, paper patterns, and especially for the use of auctioneers.

Size "5825" are printed in blue ink on white paper; are used for numbering Natural History specimens, Check Books, paging files of Letters, Newspapers, or any other papers, also Blank-books, Scrap-books, and Stamp collections. Any style or quantity to order.

The **Letters** size "A" are printed in black, on tinted paper, and are used for Lecture-room Chairs, etc. The size "B" are printed in black, on white paper, and are used for indexing books and for pigeon holes, etc.

	PRICE.
A	Perforated, Like Postage Stamps. SELF-SEALING.
B	Large Letters, Alphabet, 10 cts. Small Letters, Per 100, 10 cts.
25	Runs to 1,000, Tinted paper, Per 100, 20 cts.
252	Runs to 1,000, Tinted paper, Per 100, 10 cts.
5825	Runs to 10,000, White Paper, Per 100, 10 cts.

"O. W." SCHOOL BAGS.



These bags are made from the best cable laid cord; are entirely free from starch or sizing of any kind, and are the only bags of domestic manufacture that are **not** filled with glue, starch, or similar substances to give an appearance of strength.

Should they become soiled through use they may be laundried and made as good as when new.

No. 1.	12 inches long,	-	-	-	-	-	Each, \$0.25
" 2.	14	"	-	-	-	-	" .30
" 3.	16	"	-	-	-	-	" .35



Close Worked Hemp Bags.

8½ x 10 inches,	-	-	Each, \$0.15
10 x 12	"	-	" .20
11½ x 14½	"	-	" .25
12 x 16	"	-	" .30

School Book Straps.

*A Fine Line of Straps at Low Prices.
All 36 Inches in Length.*

WITHOUT HANDLES.

No. 1, Split Leather, plain buckles,	-	-	-	Per doz., \$0.60
" 2, Whole "	"	-	-	" .80
" 3, " " patent buckles,	-	-	-	" 1.20

WITH HANDLES.

No. 4, Split Leather, whole leather handles, a very good low priced strap,	-	-	-	-	Per doz., \$1.00
" 5, Split Leather, red leather handles,	-	-	-	-	" 1.00
" 6, Whole "	"	"	-	-	" 1.25
" 7, Split "	fancy red round leather handles,	"	-	-	1.50
" 8, " "	" flat " "	"	-	-	1.50
" 9, Whole "	" " " "	"	-	-	2.40
" 10, " "	" round " "	"	-	-	2.40



Watson's Book Clamp.

IMPROVED.

Price, each, - - - 25 cents.

Pierce's Parallel Book Clamp

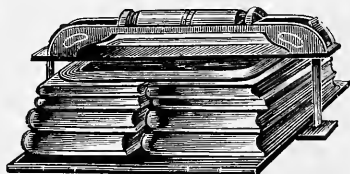
Is one of the common sense and useful articles in demand at the present time, when school children have many books and slates to carry to and from the school room. It has but one strap which encircles the whole frame, and is easily adjusted to fit one or more books, clamping and holding them firmly without bending or breaking their covers. It is made of black walnut, oiled.



Price, - - - - - 25 cents each.

The New York Book Clamp

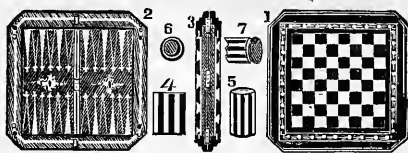
Is similar to Pierce's Book Clamp, described and illustrated above, but instead of the strap being fastened by a buckle one end of it is riveted to the frame of the clamp, and the other end is held firmly, as tightly as it can be drawn, by a strong pawl let into the upper part of the frame. Black walnut, oiled.



Price, - 30 cents each.

Patent Inlaid Chess, Checker, and Backgammon Boards.

Three varieties made, and each Board is furnished with a pair of Magic Dice Boxes. We believe this to be the most beautiful and substantial Board in the market, and on all accounts the most desirable and economical.



Description of Illustrations.

1. The upper side of the board showing squares for chess, etc.
2. The under side, with points for backgammon.
3. A section of the board when folded.
4. The cylinder of a magic dice cup folded flat.
5. The cylinder of a magic dice cup opened.
6. The bottom of a magic dice cup.
7. A magic dice cup complete, ready for use.

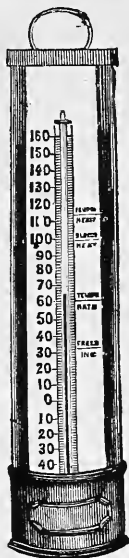
Prices.—Style A. For Chess and Backgammon, plain margin, \$5.00

“ B. “ “ “ inlaid “ 6.00

“ C. “ Chess, Backgammon, and Cribbage, inlaid margin, - - - - - 7.00

THERMOMETERS.

Everybody knows that it is necessary to regulate the temperature of occupied rooms in order to preserve health and comfort. This can be done properly only by the use of a Thermometer. Those described below are **cheap** and **reliable**.



TIN CASE.

				Each.
7	inch, Fahrenheit Scale,	-	-	\$0.35
8	" " " "	-	-	.40
10	" " " "	-	-	.45
12	" " " "	-	-	.50

FANCY CASE.

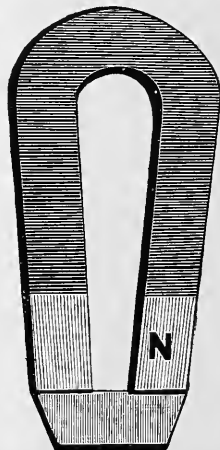
				Each.
8	inch Mahogany, Fahrenheit Scale,	-		\$0.60
10	" " " "	-		.65
10	" Rosewood, " " "	-		.75
6	" Union Frame, Ruby, Fahrenheit Scale,			.65
8	" " " " " "			.85
10	" " " " " "			1.00
10	" Window, single degree, " "			1.00

MAGNETS.

Every School and Teacher should be provided with one, furnishing as it does a means of illustrating the law of attraction, besides affording endless amusement to the children.

Sizes and Prices.

2	inch, with armature,	-	-	Each, \$0.15
2½	" " "	-	-	.20
3	" " "	-	-	.25
3½	" " "	-	-	.30
4	" " "	-	-	.40
4½	" " "	-	-	.50
5	" " "	-	-	.65
6	" " "	-	-	1.00
7	" " "	-	-	1.25
8	" " "	-	-	1.50



NEW SCHOOL MOTTOES.

20 Mottoes on 12 Cards, 7½ x 13 Inches.

These Mottoes are intended to adorn the walls of the school-room, as well as aid in moral instruction. They are printed on heavy cardboard in brilliant and attractive colors, an assortment of which is placed in each set. The letters are large and distinct, and a neat ornamented border encloses each card. Their cheerful appearance with the judicious and appropriate sentiments presented, cannot fail to please the eye, and be of lasting benefit to the pupil. The low price at which they are furnished allows of their being placed in every school-room. The set consists of the following Mottoes:

I am Late.	Diligence Enriches.
Sloth Impoverishes.	Time is Money.
Know Thyself.	I shall Succeed.
Learn to Wait.	I will Try.
Strive to Please.	Strive to Win.
Dare to do Right.	Speak the Truth.
Hasten Slowly.	No Lie Thrives.
I am Early.	I'll do it Well.

Forgive others sooner than yourself.
Where there is a will there is a way.
Make a good rule and keep it.
Well begun is half done.

Price, per mail, 75 cents.

Testimonials.

*Lithographed on Heavy White Paper, with Appropriate Designs,
Sketches, etc.*

No. 1.	Size	6½ x 9½ inches,	-	-	-	per doz., \$0.50
" 2.	"	8 x 10	"	-	-	" .60
" 3.	"	10 x 12	"	-	-	" .72

We have special facilities for executing fine lithograph **DIPLOMAS** at prices considerably below those usually charged. We shall be glad to estimate at any time when this class of work is desired.

Medals and Badges.

Medal No. 1 is struck in a metal which rivals silver in its beauty and practical utility for this purpose, since it is quite as bright, and just as hard, while it will not so easily tarnish as silver does.



The cuts illustrate it both sides, and in exact size.

Price of Medal No. 1, 20 cents.



Medal No. 2 is shown herewith, both sides. It is somewhat larger than No. 1, and is made of the same metal. Above the word "Excellence" space is left for the date, and above the word "Attention," for the name of the pupil.



In New York, the engraving costs 3 cents for each letter or figure.

On receipt



of the money we will have it done at that rate. In other localities jewelers can be found who do it as well. Price of Medal No. 2, 25 cents.

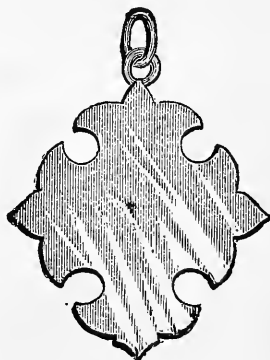
These School Badges have been selected with great care, in response to a growing demand.

The cuts show them full size.

They afford ample space for any lettering required.

Price, in Solid "Coin" Silver, - \$2.50

Price, in 14 Carat Gold, - - - - - \$7.50



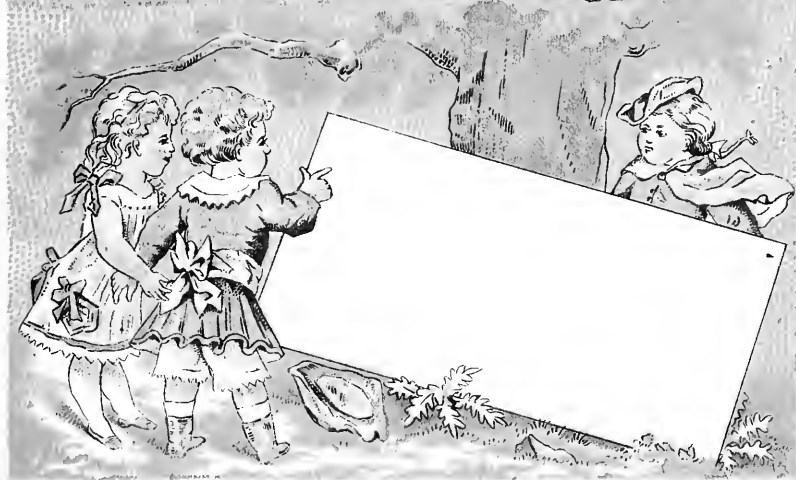
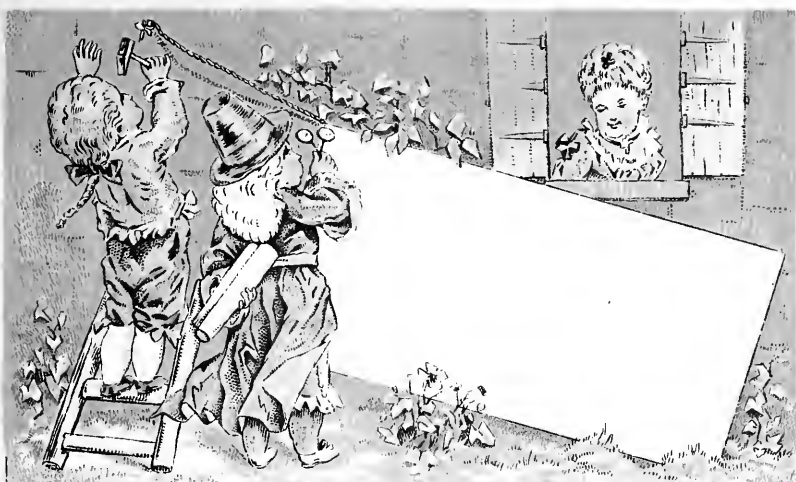
ILLUMINATED REWARD CARDS.

We present in this Catalogue **fac-simile** illustrations of some of the **new and beautiful** Reward Cards described in the following list. They are all of the latest and most appropriate designs, each pack containing an assortment of several styles. Sent by mail on receipt of price.

SERIES.

PER PACK.

No.	1.—12 FLORAL AND FRUIT DESIGNS,	-	-	12 Cards to the Pack,	\$0.25
"	2.— 6 FLORAL DESIGNS,	-	-	12	“ “ .25
"	3.— 6 FLORAL DESIGNS,	-	-	12	“ “ .20
"	4.— 6 FLORAL DESIGNS,	-	-	12	“ “ .30
"	5.— 6 FLORAL DESIGNS,	-	-	12	“ “ .30
"	6.— 6 DESIGNS, BEAUTIFUL PLUMAGE REPRODUCTIONS,	-	-	12	“ “ .30
"	7.— 6 FLORAL DESIGNS,	-	-	12	“ “ .25
"	9.—12 DESIGNS, FRUIT, FLORAL, AND BIRD,	-	-	12	“ “ .30
"	11.—12 FLORAL DESIGNS,	-	-	12	“ “ .25
"	12.— 6 FLORAL DESIGNS,	-	-	12	“ “ .25
"	13.— 6 DESIGNS,	-	-	12	“ “ .15
"	14.—12 FLORAL DESIGNS,	-	-	12	“ “ .20
"	21.— 6 DESIGNS, BOOK MARKS, FERN, FLORAL, AND INSECT DESIGNS,	-	-	12	“ “ .40
"	22.— 4 DESIGNS, EMBOSSED,	-	-	8	“ “ .30
"	23.— 6 DESIGNS, LARGE BOOK MARKS, CEREAL, FLORAL, AND INSECT DESIGNS,	-	-	6	“ “ .50.
"	24.— 6 DESIGNS, EGYPTIAN AND ANTIQUE,	-	-	12	“ “ .40
"	25.— 6 FLORAL DESIGNS, WITH PORTRAITS OF EMINENT AMERICAN POETS, AND CAREFULLY SELECTED QUOTATIONS,	-	-	6	“ “ .30
"	26.— 6 BIRD DESIGNS,	-	-	12	“ “ .30
"	27.—14 JUVENILE DESIGNS, CAMEO PRINTING,	-	-	84	“ “ .15
"	28.—16 DESIGNS, SMALL FLORAL AND BIRD REWARDS,	-	-	96	“ “ .25
"	29.— 8 JUVENILE DESIGNS, CAMEO PRINTING,	-	-	24	“ “ .25
"	30.— 6 DESIGNS, FLORAL AND FEATHER, BEAUTIFULLY EMBOSSED,	-	-	6	“ “ .30
"	31.—12 DESIGNS, FANS,	-	-	12	“ “ .30
"	32.— 6 DESIGNS, FLORAL BOOK MARKS, Scripture Texts,	-	-	6	“ “ .60
"	33.— 6 DESIGNS, FLORAL BOOK MARKS,	-	-	6	“ “ .60
"	34.—12 DESIGNS, FLORAL CARDS,	-	-	12	“ “ .40
"	35.—12 DESIGNS, FLORAL CROSSES,	-	-	12	“ “ .30
"	36.—12 DESIGNS, SMALL BOOK MARKS,	-	-	12	“ “ .15
"	37.— 6 DESIGNS, LANDSCAPES,	-	-	12	“ “ .25
"	38.— 6 DESIGNS, JUVENILES,	-	-	12	“ “ .25
"	39.— 4 DESIGNS, SEASONS,	-	-	8	“ “ .20
"	40.— 4 DESIGNS, JUVENILES,	-	-	8	“ “ .40
"	41.— 8 DESIGNS, SEPIAS,	-	-	8	“ “ .30
"	42.—12 DESIGNS, ÆSOP'S FABLES,	-	-	12	“ “ .25
"	43.— 6 DESIGNS, LITTLE ONES AT HOME,	-	-	12	“ “ .20
"	44.— 8 JUVENILE DESIGNS, CAMEO PRINTING,	-	-	48	“ “ .40
"	45.—12 DESIGNS, PUG DOGS,	-	-	12	“ “ .25
"	47.—12 DESIGNS, WILD FOWL, Etc.,	-	-	12	“ “ .25
"	48.— 6 JUVENILE DESIGNS, Scripture Texts,	-	-	12	“ “ .25





Book Rest for Office Desks and Library Tables.



Open, 8 x 13 Inches.

This rest consists of six ornamentally carved and elegantly finished pieces of hard wood, with a bottom piece, to which are screwed two steel movable clasps. **It is self-supporting**, and occupies, when in use, the space of 8 x 13 inches. When not in use it folds into something like a ruler,

3 x 19 inches, and may be laid in a common desk drawer. It is large enough for any octavo or quarto volume, and sufficiently tasteful and ornamental for any surroundings. Lawyers, Students, Copyists, and all Readers using two books at once *must use it*, and other readers *ought to use it* for their own *Comfort, Convenience, and Health*.

It holds the book constantly at the proper angle, thus *resting and*



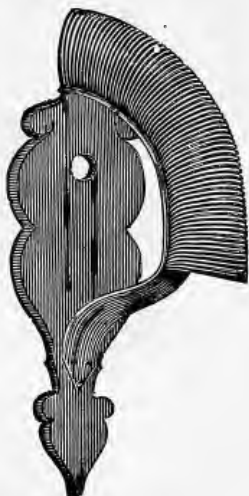
Folded, 3x19 inches.

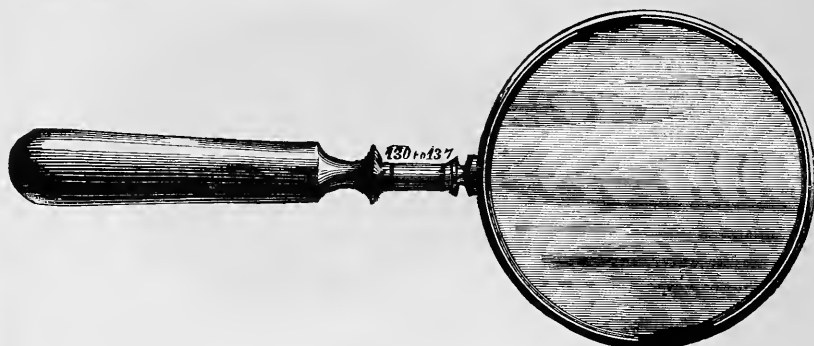
strengthening the eye. It prevents the reader from assuming a crouching and unhealthful posture while reading, and it relieves the hand and arm from the weight of a heavy book, thus *adding greatly to the comfort of the reader.* Price, - - - - - \$1.00.

Willett's Ready Reference Card-Holder.

The handiest Card-Holder made; it occupies little space, and can be hung on the side of a desk, or in any other convenient place.

Size, 9¼ inches long, per doz., - \$3.00
By mail, each, - - - - - .30



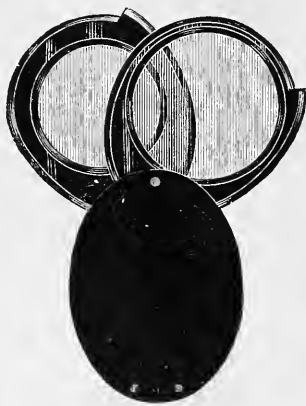


READING GLASSES.

For Examining Maps, Engravings, Photographs, etc.

							EACH.
No. 130,	German Silver Frame, black handle, 2 inches diameter,						\$1.00
" 131,	"	"	"	"	3	"	2.00
" 132,	"	"	"	"	4	"	3.00
" 133,	"	"	"	"	5	"	5.00
" 134,	Gilt Frame, Ivory handle,				2	"	2.25
" 135,	"	"	"	"	3	"	3.75
" 136,	"	"	"	"	4	"	5.50
" 137,	"	"	"	"	5	"	8.50

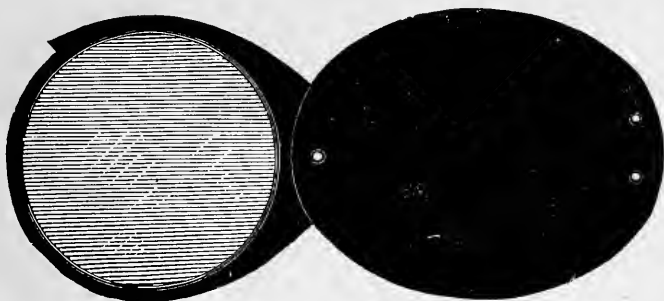
Pocket Magnifying Glasses.



No. 51.

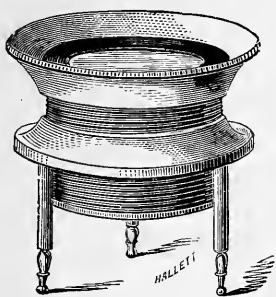
These Glasses are often very useful to Teachers, while to students of Botany, Geology, or any other of the Natural Sciences, they are a necessity. They are set in hard rubber rims, which fold into a case of the same material, thus making them convenient and safe to carry in the pocket. They may be had in a variety of styles, with one or more lenses, as shown in the cuts.

No. 50,	one $\frac{3}{4}$ -inch lens,	-	-	-	-	-	Each, \$0.30
" 51,	two $\frac{3}{4}$ -inch lenses,	-	-	-	-	-	" .50
" 56,	one 1-inch lens,	-	-	-	-	-	" .50
" 57,	two 1-inch lenses,	-	-	-	-	-	" .75



No. 62.

No. 62, one $1\frac{1}{4}$ -inch lens, -	-	-	-	-	-	Each, \$0.60
" 63, two $1\frac{1}{4}$ -inch lenses, -	-	-	-	-	-	" 1.00
" 68, one $1\frac{1}{2}$ -inch lens, -	-	-	-	-	-	" .75
" 69, two $1\frac{1}{2}$ -inch lenses, -	-	-	-	-	-	" 1.25
" 74, one $1\frac{3}{4}$ -inch lens, -	-	-	-	-	-	" .90
" 75, two $1\frac{3}{4}$ -inch lenses, -	-	-	-	-	-	" 1.60
" 78, one 2-inch lens, -	-	-	-	-	-	" 1.25
" 79, two 2-inch lenses, -	-	-	-	-	-	" 2.00



No. 127.



No. 143.

No. 127, Tripod Magnifier, brass
screw adjustment for focus,
each, - - - \$0.75

" 143, folds flat, one lens, each, .50

" 144 $\frac{1}{2}$, one lens, strong focus,
each, - - - .40

No. 144 $\frac{1}{2}$.



No. 110.

No. 110, one 1-inch lens,	-	-	-	-	-	Each, \$0.50
" 111, two 1-inch lenses,	-	-	-	-	-	" .75
" 112, three 1-inch lenses,	-	-	-	-	-	" 1.00

The Youth's Microscope.

This is a neatly finished instrument, designed for the use of young persons who wish to pursue their investigations beyond the powers yielded by a simple Microscope. The low price at which it is sold, and its compact form, make it very desirable. The lenses are accurately ground, and afford a power sufficient to render distinctly visible a great number of minute objects, animal, vegetable and mineral.

The Youth's Microscope is substantially made, with a vertical brass body, 6 inches high. One eye piece, one objective, giving a power of 40 diameters (1,500 areas). Mirror beneath the stage for the illumination of transparent objects.

In French polished case, with 2 Glass Slips, 1 Prepared Object, and 1 pair Brass Forceps, - \$2.50.

Every Microscopist should have a standard recent book on the Microscope.

COMMON OBJECTS OF THE MICROSCOPE. By Rev. J. G. Wood. Upward of 400 illustrations, on 12 colored plates, by Tuffen West. 132 pages, - \$0.50.

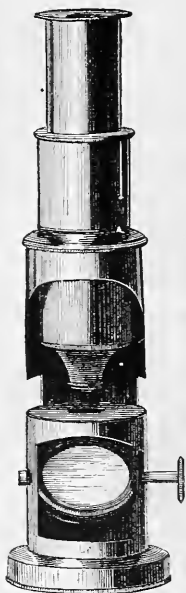
PRACTICAL HINTS ON THE SELECTION AND USE OF THE MICROSCOPE. By Dr. J. Phin. 131 pp., \$0.75.

THE PREPARATION AND MOUNTING OF MICROSCOPIC OBJECTS. By Thomas Davies. 214 pages. \$1.25.

HALF HOURS WITH THE MICROSCOPE. Being a Popular Guide to the use of the Microscope as a means of Amusement and Instruction. By Edwin Lankester, M.D. Illustrated from Nature, by Tuffen

West. A new edition with chapter on the Polariscope, by F. Kitton. 130 pages, - \$1.50.

EVENINGS AT THE MICROSCOPE. By P. H. Gosse, F.R.S. 477 pages, with numerous illustrations, - \$1.50.



The Household Microscope

Stands seven inches high when inclined as shown in the engraving, and ten inches when the draw tube is extended.

The base is of iron, bronzed, with hinged joint. The body is of brass, finely finished, with extension draw tube.

The stage is large and steady, with brass springs for holding the object. Beneath the stage is a mirror with universal motion for illumination of transparent objects.

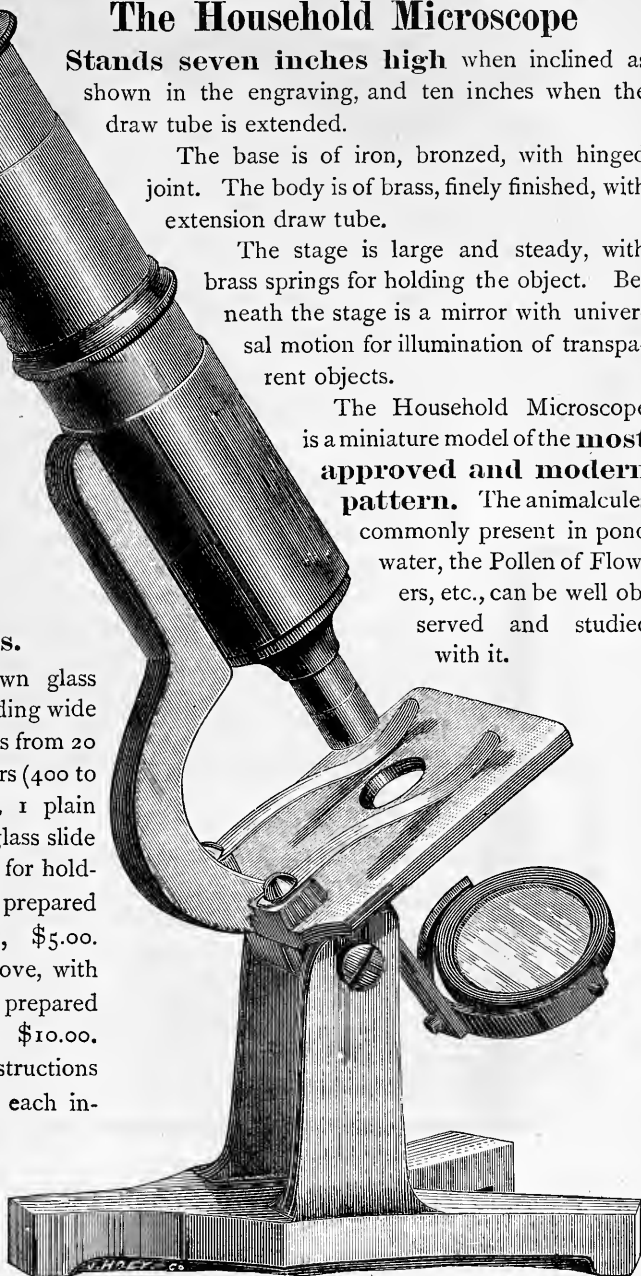
The Household Microscope is a miniature model of the **most approved and modern pattern**. The animalcules commonly present in pond water, the Pollen of Flowers, etc., can be well observed and studied with it.

Prices.

With 2 crown glass objectives yielding wide range of powers from 20 to 100 diameters (400 to 10,000 areas), 1 plain glass slide, 1 glass slide with concavity for holding liquids, 1 prepared object—in box, \$5.00.

Same as above, with addition of 48 prepared objects, - \$10.00.

Printed instructions furnished with each instrument.

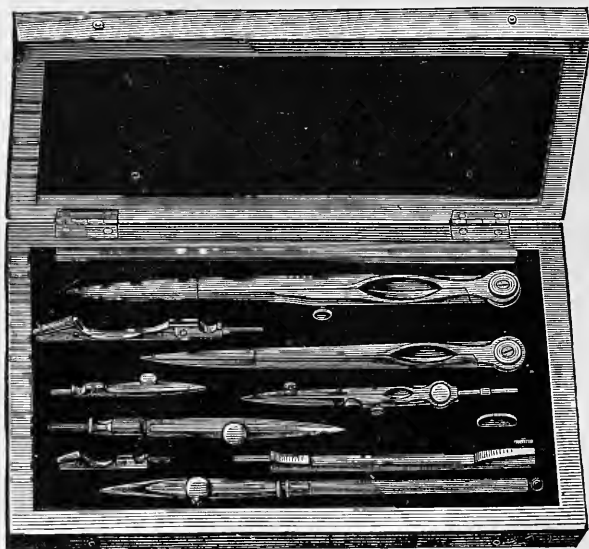


DRAWING MATERIALS.

French Instruments.

Of Brass and German Silver in Cases.

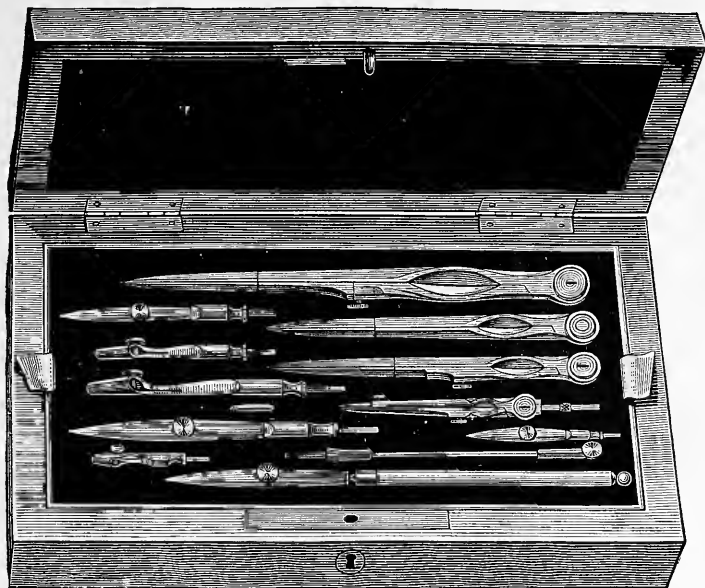
No.		Each.
339.	Mahogany Case, containing 5 pieces, Brass: 1 Pair Compasses, 4½ inch, with Pen and Pencil Points, 1 Key, - - - - -	\$0.65
340.	Mahogany Case, containing 6 pieces, Brass: 1 Pair Compasses, 4¼ inch, with Pen and Pencil Points, 1 Crayonholder, 1 Key, 1 Rule, - - - - -	.75
341.	Mahogany Case, containing 8 pieces, Brass: 1 Pair Compasses, 4¼ inch, with Pen, Pencil Points, and Lengthening Bar, 1 Crayonholder, 1 Protractor, 1 Key, 1 Rule, - - - - -	.90
342.	Mahogany Case, containing 9 pieces, Brass: 1 Pair Compasses, 4¼ inch, with Pen, Pencil Points, and Lengthening Bar, 1 Drawing Pen, 1 Crayonholder, 1 Protractor, 1 Key, 1 Rule, - - - - -	1.05
345.	Mahogany Case, containing 10 pieces, Brass: 1 Pair Compasses, 4¼ inch, with Pen, Pencil Points, and Lengthening Bar, 1 Pair Dividers, 3½ inch, 1 Drawing Pen, 1 Protractor, 1 Crayonholder, 1 Key, 1 Rule, - - - - -	1.15
346.	Mahogany Case, the same as No. 45: Compasses 1 inch longer, - - - - -	1.45



No. 347.

347.	Mahogany Case, containing 12 pieces, Brass: 1 Pair Compasses, 4½ inch, with Pen, Pencil Points, and Lengthening Bar, 1 Pair Dividers, 3½ inch, 1 Bow Pen with Pencil Point, 1 Drawing Pen, 1 Protractor, 1 Key, 1 Rule, - - - - -	1.60
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No.		Each.
348.	Mahogany Case, containing 12 pieces, Brass, the same as No. 47, but Compasses $5\frac{1}{2}$ and $4\frac{1}{4}$ inches long, - - - - -	\$2.00
349.	Rosewood Case, containing 12 pieces, Brass: the same as No. 48, - - - - -	2.40
350.	Rosewood Case, with Lock and Tray, containing 12 pieces, Brass: the same as No. 48, - - - - -	2.85
351.	Rosewood Case, with Lock and Tray, containing 12 pieces, German Silver: the same as No. 48, - - - - -	5.00
352.	Rosewood Case, with Lock and Tray, containing 12 pieces, Brass: the same as No. 50, but Compasses $6\frac{1}{4}$ and $5\frac{1}{2}$ inches long, - - - - -	3.30



No. 355.

355.	Rosewood Case, with Lock and Tray, containing 16 pieces, Brass: 1 Pair Compasses, $6\frac{1}{4}$ inch, with Pen, Pencil Points, and Lengthening Bar, 1 Pair Compasses, $3\frac{1}{2}$ inch, with Pen and Pencil Points, 1 Pair Dividers, $4\frac{1}{4}$ inch, 1 Bow Pen with Pencil Points, 1 Drawing Pen, 2 Protractors, 1 Key, 1 Rule, - - - - -	3.70
356.	Rosewood Case, with Lock and Tray, containing 16 pieces, Brass: the same as No. 55; the Compasses with Needle-points, - - - - -	4.50
357.	Rosewood Case, with Lock and Tray, containing 16 pieces, German Silver; the same as No. 55, - - - - -	7.50
358.	Rosewood Case, with Lock and Tray, containing 16 pieces, German Silver: the same as No. 57, the Compasses with Needle-points, - - - - -	8.00

Prang's Patent American Compasses.

For School and Office Work.

(PATENTED AUGUST 22, 1876.)

In offering Prang's Patent American Compasses to the public, we beg to call attention to the following features, which make them the **cheapest** and **most practicable** instruments in the market for school and office work :

FIRST.—They are strongly made of German silver, which obviates the serious objection made to the frequent handling, especially by pupils, of brass instruments, on account of the poisonous oxidation which attaches to the fingers.

SECOND.—There are no screws in them to drop out and get lost.

THIRD.—There are no extra pieces to be attached or detached in changing from compass-point to pencil or pen-point.

FOURTH.—When closed, the compass, pencil, and pen points are protected, and the instrument can be carried in the pocket as conveniently as a lead-pencil.

FIFTH.—They are the cheapest really good instruments in the market, as they retail for only 25 and 35 cents respectively.

These compasses have proved satisfactory wherever used, and not a single imperfect instrument has been returned.

They are now used very largely in public schools.

Two numbers of these compasses have been made—the first, the A compasses, containing compass, pen and pencil points, are intended for use in High Schools, Drawing Classes, and for common office work, where a pen-point is sometimes desirable; the second, the B compasses, comprising compass and pencil points only, are intended for use in the lower classes of public schools, where only a compass and pencil-point are necessary.

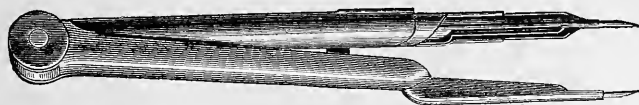
The following cuts show the instruments in their different aspects :

INSTRUMENT CLOSED.



This represents the instrument (A or B) closed.

"A" COMPASSES.



This shows the A compasses opened, with the compass-point projected beyond the pen-point.



This shows the combination leg of the A compasses; *a*, pen-point; *b*, compass-point drawn in; *c*, pencil-point; *d*, projection with which to slide pencil-point and compass-point in and out.

"B" COMPASSES.



This shows the B compasses opened, with the compass-point in place for use.



This shows the B compasses opened, with the combination leg reversed, and pencil-point in place for use; *a*, projection with which to slide the pencil-point in and out.

These instruments are put up in wooden boxes, containing one hundred each, or are sewed on cards of one dozen each, put up in paper boxes of one gross.

Price, A compasses,	-	-	-	-	-	-	35 cents each.
B compasses,	-	-	-	-	-	-	25 "

Special grades of pencils, about two inches long, and made expressly by the Joseph Dixon Crucible Co. to fit the compasses, can be furnished at \$1.00 per gross.

French Instruments.

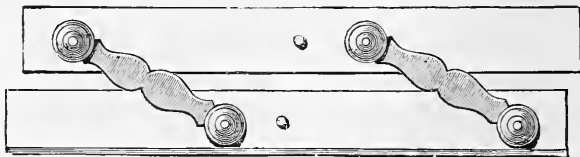
Separate.

No.					Each.
380-1.	Brass, Plain Dividers,	4¼ inch,	-	-	\$0.30
380-2.	" " "	5½ " -	-	-	.35
380-3.	" " "	6¼ " -	-	-	.40
381-2.	German Silver, Plain Dividers,	5½ inch,	-	-	.70
386.	Brass, Proportional Dividers,	6¼ inch, in Case,	-	-	2.00
386½.	" " "	8 " "	-	-	5.00
387.	German Silver, Proportional Dividers,	6¼ inch, in Case,	-	-	3.00
387½.	" " "	6½ " divided for			
		Lines, Circles, Solides, and Planes, in Case,			4.50
388.	" " "	Proportional Dividers, 7 inch, with rack move-			
		ment, in Case, -	-	-	6.00



No.					Each.
394.	Drawing Pen, Ebony Handle,	-	-	-	\$0.20
395.	" White Bone Handle, with Pin,	-	-	-	.30
269.	" 4 inch,	-	-	-	.55
270.	" 5 " "	-	-	-	.70
271.	" 5 " common joint,	-	-	-	.80
272.	" 4 " fine joint,	-	-	-	.85
273.	" 5½ " "	-	-	-	1.00
274.	" 4 " and pin,	-	-	-	1.00
275.	" 5½ " "	-	-	-	1.25
276.	Hatching Pen, 5 inch, with 3 Pairs of Blades,	-	-	-	1.75

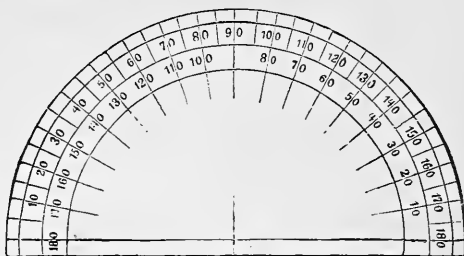
Parallel Rulers.



No. 00.

No.						Each.
00.	Ivory Parallel Rule, German Silver Bars, 6 inch,	-	-	-	-	\$1 50
01.	Ebony " Brass Bars,					
	No. 01,	02,	03,	04,	05,	06,
	6	9	12	15	18	24 inch.
	Each \$0.25	50	75	1.00	1.25	2.00

Protractors.



No. 426.

No.						Each.
425.	Semicircular Horn Protractor,	4 $\frac{1}{4}$ inch	1°,	-	-	- \$0.25
426.	"	"	"	5 $\frac{1}{4}$ "	$\frac{1}{2}$ °,	- .30
427.	"	"	"	6 $\frac{1}{4}$ "	$\frac{1}{2}$ °,	- .40
427 $\frac{1}{2}$.	"	"	"	7 "	$\frac{1}{2}$ °,	- .60

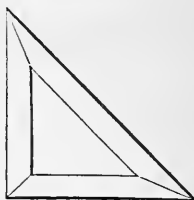
Ivory and Boxwood Scales.

No.					Each.
482.	Ivory Plotting Scale,	6 inch,	-	-	- \$0.75
483.	Boxwood Plotting Scale,	6 inch,	-	-	- .15

Triangles.



No. 824.



No. 828.

No.						Each.
820.	Pearwood Triangles, plain,	30 x 60°:	7 inch,	-	-	\$0.15
	"	"	"	9 "	-	.20
822.	"	"	"	45°: 5 $\frac{3}{4}$ inch,	-	.15
	"	"	"	7 $\frac{3}{8}$ "	-	.20
824.	Pearwood or Cherry Triangles, framed,	30 x 60°:	7 inch,			.20
825.	"	"	"	"	9 "	.25
826.	"	"	"	"	11 "	.30
827.	"	"	"	"	14 "	.40
828.	"	"	"	"	45°: 5 $\frac{3}{4}$ inch,	- .20
829.	"	"	"	"	7 $\frac{3}{8}$ "	- .25
830.	"	"	"	"	9 "	- .30
831.	"	"	"	"	11 "	- .40

School and Office Rulers.

These Rulers are made of sound, hard wood, polished, specially for *school* and *office* use. They are accurately marked in eighth-inches, quarter-inches, half-inches, and inches, stamped in black. One edge is beveled and the other grooved to prevent any overflow of ink from soiling the paper while ruling.

12-inch, Wide, School , 50 in a box,	-	Price, per 100,	\$3.00
12-inch, Narrow,	- - - - -	" per dozen,	.40
12-inch, Wide,	- - - - -	" "	.75
15-inch,	" - - - - -	" "	.88
18-inch,	" - - - - -	" "	1.05
21-inch,	" - - - - -	" "	1.25
24-inch,	" - - - - -	" "	1.50
12-inch,	" Brass edge,	- - -	1.50
15-inch,	" "	- - -	1.88
18-inch,	" "	- - -	2.35
21-inch,	" "	- - -	2.90
24-inch,	" "	- - -	3.60

Crayon Holders.



No. 1440.

1440.	Crayon Holder, Brass, 5 inch and 6 inch,	- -	Each,	\$0.08
1440½.	" " 4½ " - -	- -	"	.06
1441.	" German Silver, 5 inch,	- -	"	.25
1442.	" Brass, Ebony Handle, 5 inch,	- -	"	.10
1443.	" " " fine, 5 inch,	- -	"	.15
1444.	" German Silver, Ebony Handle, fine, 5 in.,	- -	"	.25
1445.	" Brass, double, wooden centre, 7 inch,	- -	"	.25
1446.	" Germ. Silver, double, wooden centre, 7 in.,	- -	"	.40

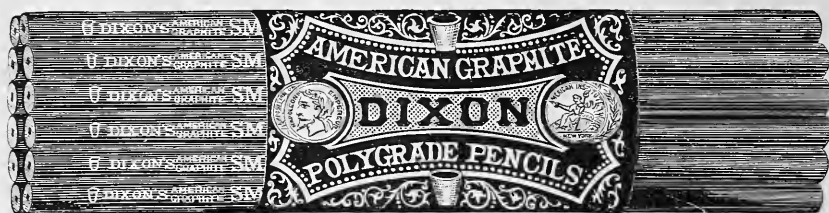
Stumps.



No. 1439.

1438.	Paper Stumps, assorted,	- - -	per doz.,	\$0.50
1439.	Chamois Leather Stumps, assorted,	- - -	"	1.50
1439½.	Cork Stumps, assorted,	- - -	"	1.50

Dixon's American Graphite Office and Artist's Pencils.



PATENT DOZEN PACKAGE.

Office Pencils.

In Six Grades, in both Round and Hexagon Shapes.

S, Soft. A very soft, black, smooth pencil.

S M, Soft Medium. Popular for general use. The nearest to what is known as "No. 2," but smoother and pleasanter to use.

M, Medium. A very fine pencil, a little harder than what is known as "No. 2," more like what is known as "No. 3," but very smooth, and will wear longer than any pencil made for general use.

H, Hard. A harder pencil, smooth and fine.

V H, Very Hard. Still harder, for fine work.

V V H, Very, Very Hard. Still harder, for finest work.

All the above, Hexagon Shape ,	-	-	per dozen, \$0.75
" " Round " "	-	-	" .50

No. 200, Paper Case, containing 4 Round Office Pencils, as-	
sorted, per case, - - - - -	.25

No. 201, Paper Case, containing 4 Hexagon Office Pencils,	
assorted, per case, - - - - -	.35

UNITED STATES PATENT OFFICE,

Washington, D. C., March 5, 1874.

"I am using the best imported Siberian pencils, and paying eighteen dollars (\$18) per gross for them. I have, for the production of the drawings used in my dictionary, four draughtsmen who cannot be beaten in the United States for fine pencil work. Your pencil, V V H, is quite up to the quality of the \$18 imported; it can hardly be better; but my best draughtsman says it is perhaps a little better. We shall hereafter use none but your V V H, and I have experimented carefully. I send some of the drawings from which my cuts are made, to show you that I need the Best High-Grade Pencils, at any price.

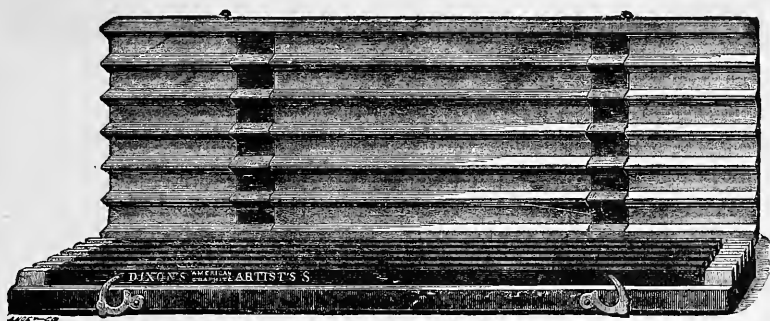
"The package containing H, V H, and V V H pencils came safely to hand, and some have been given to other bureaus in the Department, with everywhere a favorable verdict. I am yours truly, EDWARD H. KNIGHT, A.M.,

Examiner-in-charge of Classifications and Official Publications, U. S. Patent Office.

Author of 'Knight's American Mechanical Dictionary.'

A perfect pencil should be smooth, soft, black, uniform, and reliable, hold its point in wear, and be pleasant to use. The mark should be **clear** and **perfect**, but disappear entirely under the rubber, leaving the paper clean. All these qualities have been obtained in these pencils, beyond anything heretofore produced.

Dixon's Artist Case.



No. 206.

Made of Aromatic Cedar, contains six of Dixon's Hexagon American Graphite Artist Pencils, one each SM, M, MH, MB, H, VH. The case is elegantly polished.

Dixon's Artist's Pencils.

V V S , Very, Very Soft.	M , - - Medium.
V S , - - - Very Soft.	M H , Medium Hard.
S , - - - - Soft.	H , - - - Hard.
S M , Soft Medium.	V H , - - Very Hard.
M B , Medium Black.	V V H , Very, Very Hard.

In Fine Red Paper Cases, complete for Sketching or Drawing.

No.							Per Case.
202,	Paper Case, containing 4	Hexagon Artist's Pencils, ass'ted,	\$0.50				
203,	" " 6	" " " "	.75				
204,	" " 8	" " " "	1.00				

In Real Aromatic Cedar Cases, complete for Sketching or Drawing.

No.							Per Case.
205,	Cedar Case, containing 4	Hexagon Artist's Pencils, ass'ted,	\$0.75				
206,	" " 6	" " " "	1.15				
207,	" " 8	" " " "	1.50				

Lead Pencils.

Dixon's	Plain Cedar Pencils,	-	-	per gross, \$	1.20
"	Polished "	"	-	"	1.32
"	" Black	"	-	"	1.50
"	" Red	"	-	"	1.60
"	Best Office	"	Round,	per doz.,	.50
"	"	"	Hexagon,	"	.75
Faber's	"	"	Round,	"	.70
"	"	"	Hexagon,	"	.90

PENCILS IN BOXES.

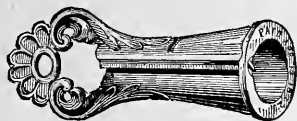
							Per Case.
No. 202,	Paper Case, containing 4	Dixon's	Hexagon	Artist's			
	Pencils, assorted,	-	-	-	-	-	\$0.50
" 203,	"	"	6	"	"	"	.75
" 204,	"	"	8	"	"	"	1.00
" 205,	Cedar Case,	"	4	"	"	"	.75
" 206,	"	"	6	"	"	"	1.15
" 207,	"	"	8	"	"	"	1.50
5	A. W. Faber's	English Pencils, in	wooden case,	-	-		.50
7	"	"	"	"	"	-	.60
10	"	"	"	"	"	-	.75
5	"	"	"	with Knife and Rubber, in			
				wooden case,	-	-	1.00
5	"	Siberian Pencils, in	wooden case,	-	-		1.00
7	"	"	"	"	"	-	1.50
10	"	"	"	"	"	-	2.00
5	"	"	"	with Knife and Rubber, in			
				wooden case,	-	-	1.50

Chinese or Indian Ink.

This Ink is of a beautiful brown or bluish hue, best adapted for shading, and indispensable to Artists for its brilliancy of shade; it is also preferable to any other ink for tracing purposes.

No.							Per Cake.
4B.	Gilt, round, with Lion Head,	-	-	-	-		\$0.20
5B.	Black, oval, " "	-	-	-	-		.15
7.	India Ink, oblong, black,	-	-	-	-		.10
A.	Oval, black, -	-	-	-	-		.25
B.	" " with Lion Head,	-	-	-	-		.50
C.	Round, gilt, -	-	-	-	-		.30
D.	Oblong, " -	-	-	-	-		.40
E.	" " -	-	-	-	-		.60
F.	Square, black, gilt figures,	-	-	-	-		.50

Pencil Sharpener.



1 Dozen in Box, price per dozen, \$1.25

Sample, by mail, 12 cents.

Stationer's Velvet Rubber.

This Patent Velvet Rubber is prepared from the best of stock, and is made by a patent process, which gives it a **soft velvet finish**, rendering it ready for use without any further preparation.



FLAT.



OBLONG.

We have no hesitation in recommending it to Accountants, Artists, Draughtsmen and others, as possessing superior qualities both in material and finish, knowing that when once tried it will prove all we claim for it.

It is soft and pliable, will not grow hard nor polish on the surface, and will readily erase and **clean the paper** at all times.

Put up in boxes of one pound each, price per pound, - \$1.25

Sizes, oblong, 12, 20, 30, 40 or 60 to the pound.

Sizes, flat, 4, 8, 12, 16, 20, 24, 30, 40, 60 or 80 to the pound.

Patent Wedge Shape Rubber Heads for Pencils.

Two SIZES.—Large, \$1.65 per gross; Small, \$1.50 per gross.

The Wedge Shape Rubber is a recent device—patented. With the sharp, chisel shape of this rubber the finest lines can be erased.

The rubber is of high quality, and a great convenience for Artists, being always ready.



No. 363.

No. 363 is the Patented Nickel-Finished Pencil-Point Protector and Rubber Eraser.

Per dozen, 50 cents; sample, by mail, 5 cents.

No. 366 is same as No. 363, Heavily Nickel-Plated, with Perpetual Calendar attachment. Per dozen, 75 cents; sample, by mail, 8 cents.



No. 366.

The Patent Adjustable Stand.

The Improved Adjustable Stand is substantial, ornamental, convenient and cheap, and its tasteful appearance makes it suitable for the office, library or sitting-room. It can be fixed at any required height, so one can use it either sitting or standing; and by

Fig 1

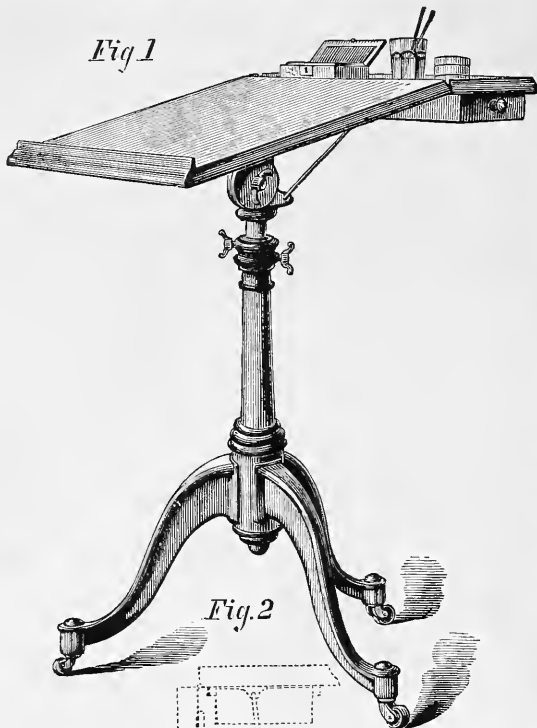
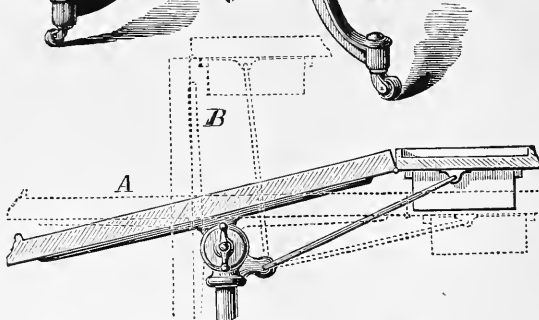


Fig. 2



For Schools, Drawing-Classes, Artists, Architects, Draughtsmen, Engineers and Artisans Generally.

turning back the screw at the right, it is allowed to rotate, bringing either side in front. The shelf or ledge for instruments is attached to the back side of the table, so that it is always level, whatever inclination is given to the desk. This is very convenient for the water-cups, ink-stands, etc. Fig. 2 shows the table fixed at a slight inclination, the dotted lines showing it horizontal at A or vertical at B. When the table is nearly vertical, the whole occupies but little space, and forms a perfect easel. When used for this purpose, a neat attachment, not shown in the cut, is furnished for

holding the picture, and the adjustments are so simple that a mere touch is sufficient to effect an entire change in the light which falls upon the work.

Under the instrument shelf are provided two drawers for working materials. The table and drawers are made of black walnut or other appropriate wood, nicely finished.

The tripod, hollow standard and sliding spindle are of cast iron, neatly painted and bronzed. The working parts are well finished and are very easily operated. The Stand complete weighs 55 pounds, and is sufficiently firm to support a drawing-board 44 inches square without inconvenience. In the lowest position the table is 30 inches high, and may be elevated to 44 inches.

Price List.

No. 1.	Suitable for School-rooms, Shops, etc., plain soft wood top, as shown in the figure, 22 x 24 inches,	- \$8.00
" 2.	Same as No. 1, with Instrument Shelf, 7 x 9 inches,	9.00
" 3.	Black Walnut Top, 22 x 26 inches; Instrument Shelf, 7 x 26,	- - - - - 10.00
" 4.	Suitable for Counting-rooms, Architect's Offices, etc., black walnut top, 22 x 26 inches; Instrument Shelf, 7 x 26 inches, two Instrument Drawers, mounted on castors, bronze paint,	- - - - - 12.00
" 5.	Same as No. 4, selected walnut top, polished, castings bronzed and ornamented; suitable for home use,	- 15.00
" 6.	Engraving Stand,	- - - - - 20.00

Bristol Board.

REYNOLDS'.

Cap,	12½ x 15¼ inches, 2 Sheet,	- -	Per doz., \$0.65
	3 "	- -	" .90
	4 "	- -	" 1.20
Demy,	14½ x 18¼ inches, 2 "	- -	" .95
	3 "	- -	" 1.40
	4 "	- -	" 1.90
Medium,	16½ x 21 inches, 2 "	- -	" 1.25
	3 "	- -	" 1.90
	4 "	- -	" 2.50

German Drawing Paper.

	Size.	Per Quire.		Size.	Per Quire.
Cap,	14 x 17,	\$0.30	Royal,	19 x 24,	.80
Demy,	15 x 20,	.45	Super Royal,	19 x 27,	.90
Medium,	17 x 22,	.60	Imperial,	22 x 30,	1.20

DRAWING BOOKS.*Without Copies. Interleaved with White Tissue Paper.*

CAP,	Size, $6\frac{3}{4}$ x $8\frac{1}{2}$ inches,	24 pages,	Per dozen, \$1.00
DEMY,	" $7\frac{1}{2}$ x $9\frac{1}{4}$	" 24 "	" 1.25
MEDIUM,	" $8\frac{1}{4}$ x $10\frac{3}{4}$	" 24 "	" 1.50
CAP,	" $6\frac{3}{4}$ x $8\frac{1}{2}$	" 32 "	" 1.25
DEMY,	" $7\frac{3}{4}$ x $10\frac{3}{8}$	" 32 "	" 1.75
MEDIUM,	" $8\frac{7}{8}$ x $11\frac{3}{8}$	" 32 "	" 2.75

*With Copies.***Bartholomew's Industrial Drawing Books.**

Free-Hand Series, 6 books,	- - -	Each, \$0.20
Geometric " 2 "	- - -	" .20
Model and Object Series, 1 book,	- - -	" .20
Perspective " 1 "	- - -	" .20
Teacher's Manual, or Guide,	- - -	" 1.75

Krusi's System of Free-Hand and Industrial Drawing.

Synthetic Series, 4 books,	- - - -	" .18
Analytical " 6 "	- - - -	" .22
Perspective " 4 "	- - - -	" .27
Advanced Perspective and Shading Series, 4 books,	- - - -	" .35
Manuals (one to each series),	- - -	" .65
Industrial Series, Textile Designs, 6 books,	-	Per set, 2.00
" " Mechanical 6 "	-	" 2.00
" " Architectural 9 "	-	" 4.50

Smith's System of Industrial and Artistic Drawing.

Intermediate Series, 3 books,	- - -	Each, .15
Free-Hand Outline Series, 5 books,	- - -	" .25
Model and Object " 2 "	- - -	" .25
Geometrical " 4 "	- - -	" .25
Perspective " 2 "	- - -	" .25
Manual for Intermediate Series,	- - -	" 1.25
" Complete Course,	- - -	" 3.00

Spencerian Drawing Books.—An Elementary and

Progressive Series, designed especially for the use of Schools, containing full and complete instructions for the use of both teacher and pupil. Five books, each containing *twenty-four* lessons,

Each, .45

Willson's Industrial Drawing Series, 8 books, " .21

" Drawing Guide, - - - - " .90

W. Hermes Drawing School.

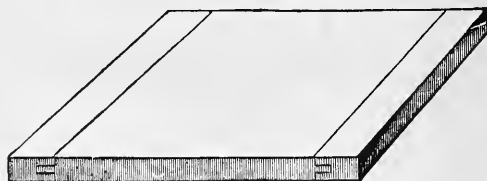
6 Studies in Cover, $5\frac{3}{4} \times 8\frac{3}{4}$ inches, - - - Each, \$0.25

On the following Subjects: Series 1, Easy Lessons in Drawing; 2, Landscapes; 3, Flowers and Fruits; 4, Arabesques; 6, Animals; 7, The Human Form; 8, Geometrical Drawing; 9, Architectural Drawing.

W. Hermes, Drawing Master.

4 Studies in Cover, $8\frac{3}{4} \times 11\frac{1}{2}$ inches, - - - Each, \$0.50

On the following Subjects: Series 1, Landscapes; 2, Flowers and Fruits; 3, Heads; 5, Horses; 6, Animals; 7, Foliage.

DRAWING BOARDS.

No.	No. 0.						Each.
0.	Drawing Board, pine, clamped,	12	x	17	inches,	- - -	\$0.75
1.	" " " "	15	x	21	"	- - -	1.20
2.	" " " "	20	x	26	"	- - -	1.75



No.	No. 3.						Each.
3.	Drawing Board, pine, nardwood ledges, dovetailed,	23	x	31	inches,	\$3.00	
4.	" " " " " "	27	x	34	"	3.75	
5.	" " " " " "	31	x	42	"	4.50	
6.	" " " " " "	33	x	55	"	8.00	
90.	Drawing Board, pine, hardwood ledges screwed to the back; the screws run in slots to allow free contraction or expansion,	-	-	-	-	-	
		16	x	21	inches,	1.50	
91.	- - - - -	20	x	26	"	2.20	
92.	- - - - -	23	x	31	"	3.50	
93.	- - - - -	27	x	34	"	4.25	
94.	- - - - -	31	x	42	"	5.50	
95.	- - - - -	33	x	55	"	9.00	

Sketch Books and Blocks.



No. 1460.						Each.
No.	1460.	Sketch Book, open leaves, white,	$4\frac{1}{2} \times 6$ inches,	-	-	\$0.60
"	"	"	5 x 7 "	-	-	.75
"	"	"	6 x 9 "	-	-	1.00
"	"	"	9 x 12 "	-	-	1.75
1461.	"	tinted,	$4\frac{1}{2} \times 6$ "	-	-	.65
"	"	"	5 x 7 "	-	-	.95
"	"	"	6 x 9 "	-	-	1.10
"	"	"	9 x 12 "	-	-	1.80



No. 1462.						Each.
No.	1462.	Sketch Block, white,	$3\frac{1}{2} \times 5$ inches,	-	-	\$0.25
"	"	"	5 x 7 "	-	-	.40
"	"	"	7 x 10 "	-	-	.65
"	"	"	10 x 14 "	-	-	1.15
1463.	"	tinted,	$4\frac{1}{2} \times 6$ "	-	-	.40
"	"	"	5 x 7 "	-	-	.60
"	"	"	6 x 9 "	-	-	.75
"	"	"	9 x 12 "	-	-	1.15
1464.	"	bound, white,	$3\frac{1}{2} \times 5$ inches,	-	-	.65
"	"	"	5 x 7 "	-	-	1.00
"	"	"	7 x 10 "	-	-	1.40
"	"	"	10 x 14 "	-	-	2.00
1465.	"	tinted,	$4\frac{1}{2} \times 6$ "	-	-	.95
"	"	"	5 x 7 "	-	-	1.10
"	"	"	6 x 9 "	-	-	1.40
"	"	"	9 x 12 "	-	-	2.00

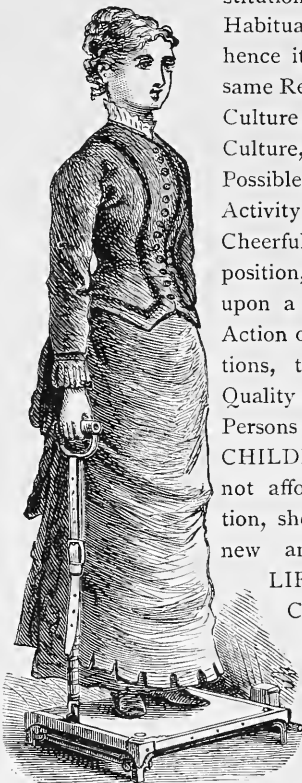
Blotting Paper.

This we furnish in large sheets, or cut to the most convenient sizes for general use.

Large sheets,	120 lb.,	size,	19 x 24 inches,	-	-	-	per doz.,	\$0.90
"	"	100 "	" 19 x 24 "	-	-	-	"	.75
"	"	80 "	" 19 x 24 "	-	-	-	"	.60
Small	"	100 "	" 4 x $9\frac{1}{2}$ "	-	-	-	per gross,	.90
"	"	100 "	" 6 x $9\frac{1}{2}$ "	-	-	-	"	1.35

Johnson's Home Health-Lift.

Beauty, Freshness of Complexion, Symmetry of Form, Health, Strength, Longevity, and even Life Itself are impossible without Exercise.



The vigor of the Physical Constitution is no less dependent upon Habitual Exercise than upon Food; hence it should be Taken with the same Regularity as Food. Physical Culture is Indispensable to Mental Culture, as a SOUND MIND is Possible Only in a SOUND BODY. Activity and Clearness of Intellect, Cheerful Spirit and Agreeable Disposition, are no less Dependent upon a Free, Full, and Healthful Action of ALL the Physical Functions, than upon the Size and Quality of the Brain. Hence, ALL Persons—MEN, WOMEN, and CHILDREN—whose business does not afford proper physical Exertion, should be provided with this new and improved HEALTH-LIFT, as a Cheap and ever Convenient means of General and Cumulative Exercise.



**Dr. Johnson's
Home Health-
Lift** is the most popu-

lar of all: Because it is the CHEAPEST—Most DURABLE—Least likely to get out of ORDER—The LIGHTEST—Most COMPACT—Most PORTABLE—Most ORNAMENTAL—Can be kept in any ROOM of the HOUSE—SIMPLEST in CONSTRUCTION—Most CONVENIENT to USE, requiring no CHANGE of DRESS, COMPOUND ADJUSTMENT, or PROFESSIONAL ASSISTANT—Hence it can be used at HOME, and AFFORDED by the MANY. **Price,** - - - - - **\$30.00.**

The Machines delivered to Express in New York. The expense of transportation is but a trifle, as the Apparatus, BOXED, weighs only 35 lbs. Send for complete descriptive circular containing hundreds of Testimonials.

GYMNASTICS.

The nations of former times from whom the present age has received some of its richest legacies in literature and art, were those who held that physical and mental culture were co-equal in value. Irregular at first, though encouraged among the young, physical exercise was afterward reduced to a method, and made a prominent feature in the public educational system. The wisest legislators considered that no government could be perfect in which the gymnasium was neglected.

The student who applies himself to the improvement of the mind only, forgetting that good digestion and bodily and mental healthfulness are interdependent, is sure to regret, and often when disease has become ineradicably fixed, the neglect of that mutual and systematic development of mind and body which enables men and women to accomplish the greatest results without an excessive drain upon either their mental or physical powers.

We have here selected such of our gymnastic apparatus as we believe is, in all respects, the best for school and home use. It is adapted to all—girls and boys, men and women. It can be used anywhere, in doors or out; is made of the best material, well-finished, *strong* and *durable*.

Price List of Gymnastic Apparatus.

Hand-Rings,	- - - - -	Per pair,	\$0.65
Wands, 28 to 40 inches long,	- - - - -	Each,	.25
“ 41 “ 60 “ “	- - - - -	“	.35

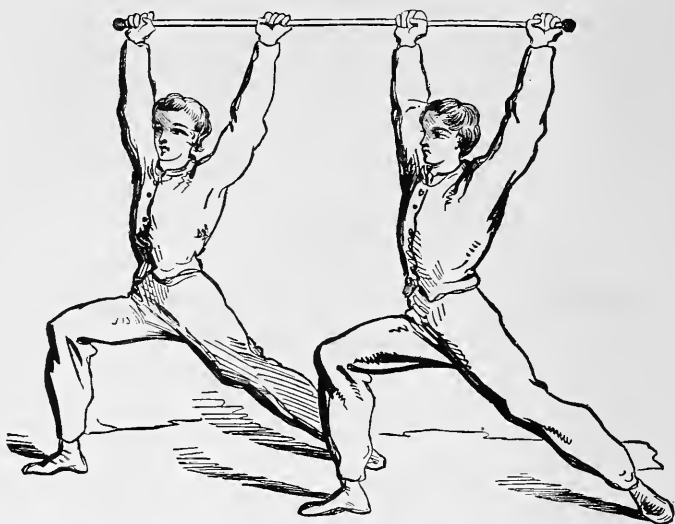
Indian Clubs.

1 lb. each,	-	Per pair,	\$1.00	6 lb. each,	-	Per pair,	\$3.25
2 “	-	“	1.50	7 “	-	“	3.75
3 “	-	“	2.00	8 “	-	“	4.25
4 “	-	“	2.25	10 “	-	“	5.00
5 “	-	“	2.75				

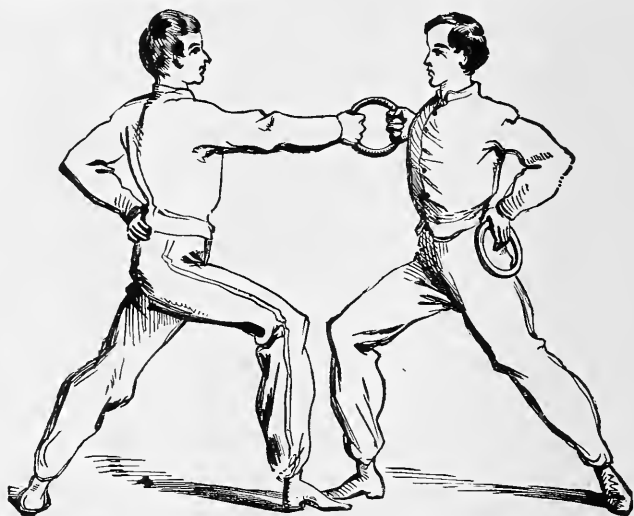
Dumb-Bells.

1 lb. each,	-	Per pair,	\$0.60	5 lb. each,	-	Per pair,	\$1.75
2 “	-	“	.70	6 “	-	“	2.25
3 “	-	“	.90	7 “	-	“	2.75
4 “	-	“	1.25	8 “	-	“	3.25

<i>Kehoe's Book on Use of Clubs</i> , illustrated,	- - - -	1.00
<i>Manual of Calisthenics</i> , by <i>Watson</i> , illustrated,	- - - -	1.25
<i>Handbook of Gymnastics</i> , by <i>Watson</i> , highly illustrated,	- - - -	2.00
<i>New Gymnastics</i> , for Men, Women, and Children, by <i>Dio Lewis</i> ,	- - - -	1.50

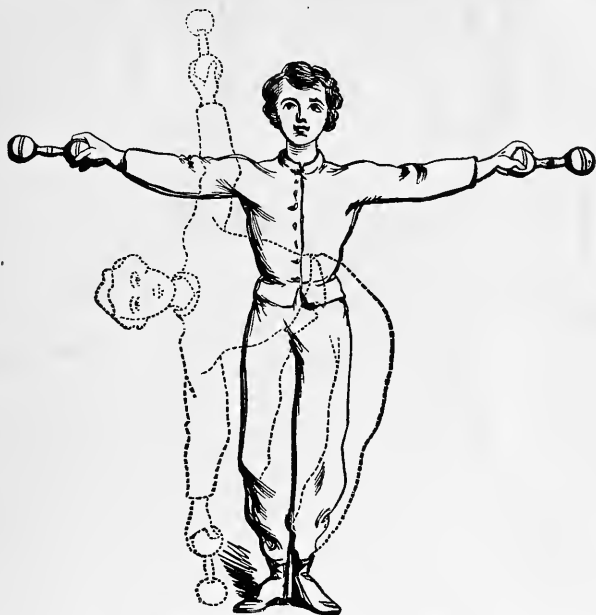


The Wands are made of thoroughly seasoned black walnut, in length varying from twenty-eight inches to five feet. They furnish many beautiful and effective exercises, and may be regarded as almost indispensable in the formation of a system of physical training. When held vertically at the side, the wand should extend from the floor to the lobe of the ear. Some of the most valuable movements cannot be executed with shorter ones.



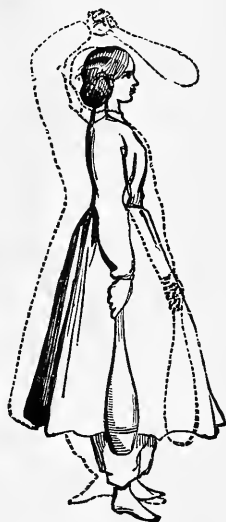
The best Rings are of wood in three sections, glued together, the grain running in opposite directions. Ours are made of

walnut for the two outside sections, the centre being hard maple. They afford opportunities for so many graceful positions and effective movements in combination for persons of all ages that they are highly esteemed and classed among the best apparatus for physical exercise.



Dumb Bells are inferior to no other article of Gymnastic Apparatus. With a pair of these every muscle and joint of the body may be exercised in a short space of time. Persons of ingenuity and skill can make them to represent almost the entire apparatus of the gymnasium. By rapid changes they appear as hand-rings, parallel bars, Indian clubs, a wand, a foil—though occupying but little space, either at rest or in motion.

Indian Clubs rank among the very best of all gymnastic apparatus. Commencing with light implements and simple exercises, the student may soon learn to handle heavy clubs with ease and expertness, executing the most complicated motions. Movements that seemed awkward and hopelessly difficult at first soon become easy, graceful, and exhilarating.



Dr. Barnett's Patent Chest Expander.

Recommended by leading physicians, and used by the pupils of a large number of public and private schools in New York and other cities.

A COMPLETE POCKET GYMNASIUM.

This is a simple health apparatus adapted for use by persons of both sexes and all ages.



It is invaluable to those who are afflicted with dyspepsia, and is highly prized by persons of sedentary habits, the round shouldered, and the narrow chested. The cuts show the simplicity of this apparatus. The expanders are made of different grades of elasticity, to suit all degrees of strength, from that of the young girl to the giant strength of the gymnast. As with Indian clubs and dumb-bells, a variety of graceful movements may be executed, and their systematic and persistent use will so develop the chest and muscles and promote circulation of the blood as to surprise those who use them, that an exercising apparatus can at once be so simple and accomplish such beneficial results.



The Hon. HENRY KIDDLE, Superintendent of New York Public Schools, recommends it as follows: "It has been used in very many of the public schools of this city, and has been found a very valuable aid in conducting exercises for physical culture. No apparatus that I have seen seems to be so well calculated to promote the object designed, while the exercises are agreeable, graceful, and appropriate for schools."

Improved Parlor Gymnasium.

A Superior System of Exercise convenient to all.



A most complete apparatus for home and school use.

Can be folded up and carried in the pocket. Admits of as great a variety of exercise as dumb-bells, Indian clubs, rings, wands, etc., while its use is more graceful, and its results more satisfactory. Adapted to all degrees of strength.

It rests the tired brain and body.

It refreshes and invigorates the entire system.

Prices of Improved Parlor Gymnasium.

		Round Bands.	Flat Bands.
No. 1.	For children 4 years old, - - -	\$0.30	\$0.30
" 2.	For children 6 to 10 years old, - - -	.60	.60
" 3.	For children 10 to 14 years old, - - -	.90	.90
" 4.	Ladies, children, and youths, - - -	1.20	1.20
" 5.	Gentlemen of moderate strength, - - -	1.50	1.50
" 6.	Gentlemen of extra strength, - - -	1.80	1.80

NOTE.—The flat band is in improved form.

They are all elegant, graceful, and effective in their uses. Recommended by the highest medical and educational authorities, and by all who use them.

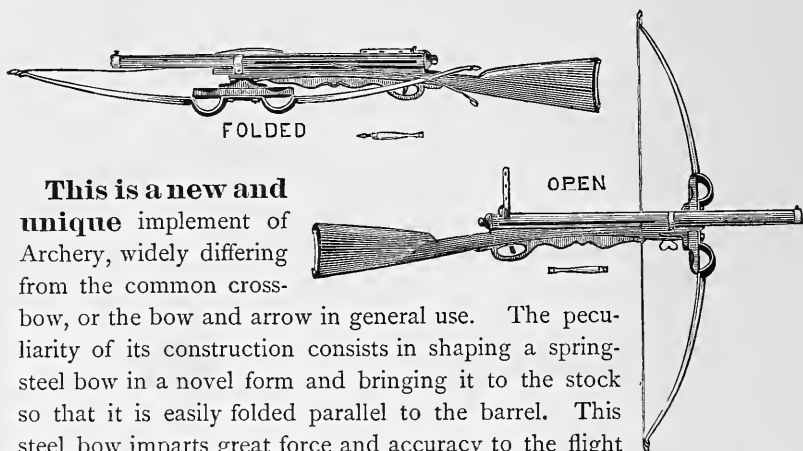
In ordering, please state whether the round or the flat band is preferred.

Prices of Dr. Barnett's Patent Chest Expander.

No. 1,	- - -	\$0.30	No. 4,	- - -	\$1.20
" 2,	- - -	.60	" 5,	- - -	1.50
" 3,	- - -	.90	" 6,	- - -	1.80

Pierce's Folding Bow Gun.

For the Lawn or the Parlor.



This is a new and unique implement of Archery, widely differing from the common cross-bow, or the bow and arrow in general use. The peculiarity of its construction consists in shaping a spring-steel bow in a novel form and bringing it to the stock so that it is easily folded parallel to the barrel. This steel bow imparts great force and accuracy to the flight of the dart, while its peculiar bend and the method of attaching it to the hinge-cushion ensure great durability.

This Bow Gun is complete in every part, and well adapted to target shooting, either on the lawn or in the parlor. An adjustable sight attached to the butt of the barrel fits it for short or long range shooting.

In the breech of the Bow Gun are four pockets, three contain darts, and the other is filled with chalk with which to whiten the end of the blunt pointed darts, so they will leave their mark on the target.

Each Bow Gun is carefully tested before it leaves the factory, and the darts are all tried to see that they are properly balanced.

Darts may be had either with flat, blunt point, or with steel spike in the end. Persons of little experience should use the blunt pointed darts.

Targets made of wood, twelve inches in diameter, with two faces, one for sharp pointed darts and the other for blunt darts, properly divided for counting the scores, are supplied when desired.

PRICES.

Bow Gun, finely finished, in neat wooden case, - - -	\$5.00
Extra Darts, per dozen, - - - - -	1.00
Targets, each, - - - - -	.75

KINDERGARTEN MATERIAL.

We invite a careful examination of our **material** for the **Kindergarten**, feeling confident that it is the most accurate and in all respects the best manufactured. The following list embraces the twenty "Gifts" of Froebel, and the best books on the **theory** and **methods** of using them.

First Gift.

Six Soft, Colored Balls.

For teaching color, form, direction, grace and precision of movement.

A set of 6 balls, primary and secondary colors,
in wooden box, - - - - \$0.75



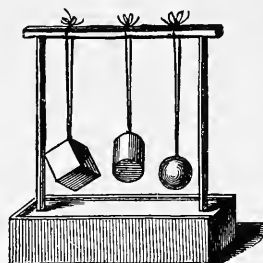
Second Gift.

Sphere, Cylinder and Cube.

For teaching form and comparison of objects, counting, sides, corners and edges of the cube, and observing different qualities and uses arising from difference in shape. The sphere always presents the same appearance, but the cube and cylinder vary according to the point from which they are viewed. The cube whirled rapidly presents the appearance of the sphere.

The forms are accurately made and provided with necessary staples and holes for hanging.

In wooden box, with cross-beam for suspending the forms, - Per box. \$0.60

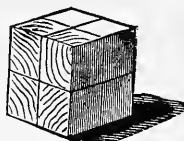


Third Gift.

Large Cube, Consisting of Eight Small Cubes.

For teaching form and number (including fractions), and for arranging, designing and building.

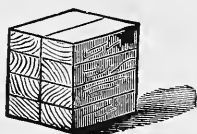
By means of this gift, children can follow their natural instinct of taking things apart to see how they are put together, without, as in the case of a broken toy, being unable to restore it to its original form.



In neat wooden box, with sliding cover, - - - - \$0.20
Diagrams for the Third Gift, - - - - .30

Fourth Gift.

Large Cube, Consisting of Eight Oblong Blocks.



For teaching length, breadth and thickness, and for arranging, designing and building, in easy designs, by young children.

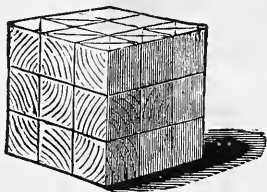
To be compared and contrasted with the Third Gift.

Price, in strong wooden box, - - - - - \$0.20

Diagrams for the Fourth Gift, - - - - - .30

Fifth Gift.

Large Cube, Divided into Twenty-one Whole, Six Half and Twelve Quarter Cubes, forming altogether Twenty-seven Small Cubes and One Large Cube.



For continuing instruction in form and number, and for arranging, designing and building.

This gift is supplementary to the Third Gift.

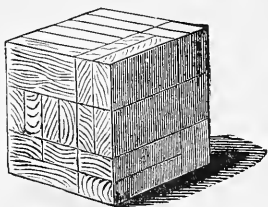
By quartering the cubes, the triangular form is introduced, and an increased amount of material is put into the hands of the child, increasing the number and variety of fundamental forms, numerical and other relations, and creative possibilities.

Price, in strong wooden box, - - - - - \$0.40

Diagrams for the Fifth Gift, - - - - - .30

Sixth Gift.

Large Cube, Consisting of Eighteen Whole Oblong Blocks, Three Similar Blocks Divided Lengthwise and Six Divided Breadthwise.



For continuing instruction in form and number, and for arranging, designing and building.

This gift is supplementary to the Fourth Gift.

Price, in strong wooden box, - - - \$0.40

Diagrams for the Sixth Gift, - - - .30

The Third, Fourth, Fifth and Sixth Gifts serve as building blocks, and are most important aids to the developing system of the Kindergarten. The first six gifts only are used in serial order, the others, after the second, being introduced at the discretion of the teacher.

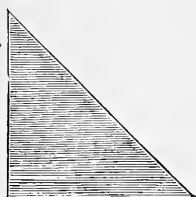
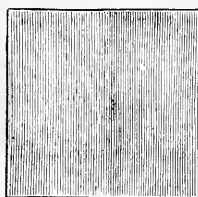
Seventh Gift.

Quadrangular and Triangular Tablets for Laying Figures.

For teaching plane surfaces as distinguished from solids, continuing instruction in proportion, and developing taste in building and arranging.

In the six previous gifts solids only are considered; by the tablets, plane surfaces are presented. This gift comprises seven forms, with careful attention to proportion and exactness, thus giving opportunity to children for the widest exercise of their ingenuity and taste in designing forms of use and beauty.

The tablets are very carefully made in primary and secondary colors, and polished.

**A****B**

Four Large Right Angled Triangles.

Price, in strong wooden box, \$0.25

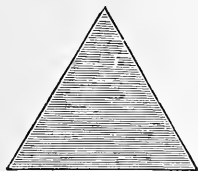
Sixteen Right Angled Scalene Triangles.

Orange and blue. In a wooden box, \$0.30

Eight Inch Squares.

Price, in strong wooden box, \$0.30

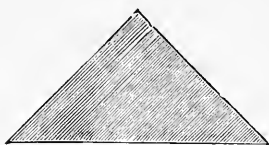
Diagrams for Seventh Gift, B, .40

**C**

Nine Large Equilateral Triangles.

Price, in strong wooden box, \$0.30

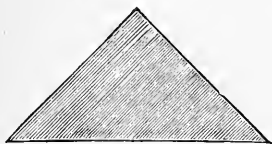
Diagrams for Seventh Gift, C, .40

**D**

Sixteen Isosceles Triangles.

Price, in strong wooden box, \$0.30

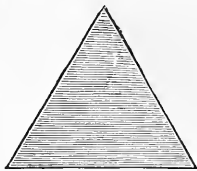
Diagrams for Seventh Gift, D, .40

**E**

Thirty-two Isosceles Triangles.

Price, in strong wooden box, \$0.40

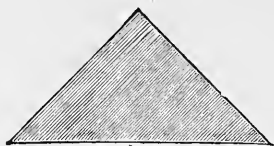
Diagrams for Seventh Gift, E, .40

**F**

Fifty-four Equilateral Triangles.

Price, in strong wooden box, \$0.50

Diagrams for Seventh Gift, F, .40



G

Fifty-six Isosceles Triangles.

Price, in strong wooden box, \$0.50

Diagrams for Seventh Gift, G, .40



H

Fifty-six Scalene Triangles.

Price, in strong wooden box, \$0.60

Diagrams for Seventh Gift, H, .40

Sixty-four Obtuse Angled Triangles.

Price, in strong wooden box, - \$0.60

Diagrams for Seventh Gift, I, - .40



I

Eighth Gift.

A.—The Jointed or Connected Slat.

This serves as a bridge between the plane surface and the stick. The first (A) shows how one form is developed from another, for instance, the Rhombus from the square, etc. It consists of thin slats of hardwood, united, forming a jointed rule.

(a.) Set of 6 links, each 4 inches long, - - - - \$0.10

(b.) " 10 " 4 " - - - - .15

(c.) " 16 " 3 " - - - - .25

Diagrams, - - - - - .30

B.—The Disconnected Slat.

Thin slats of wood, varying in length and thickness, are used for interlacing.

50 wooden slats (black walnut) 9 inches long, - - - \$0.15

100 " " 9 " - - - .25

100 splints, light wood, - - - - .10

Diagrams, - - - - - .30

C.—The Sticks.



Sticks for Stick Laying.

For teaching numerical proportions and designing. The letters of the alphabet and the numerals may also be copied. After surfaces come lines. The Eighth Gift shows the straight lines.

Paper box containing sticks, about 1300, assorted, 1, 2, 3, 4 and 5

inches long, - - - - - \$0.35

Diagrams for same, - - - - - .30

Package containing 1000 sticks, 6 inches long, - - - .25

Ninth Gift.

Rings for Ring Laying, including Whole, Half, and Quarter Rings of Various Sizes.



For teaching the curved line, diameter, circumference, radius and the elements of form, and for the development of taste in arranging and designing.

Wooden box, containing whole, half and quarter rings of various	
sizes, - - - - -	\$0.50
Diagrams for same, - - - - -	.30

Tenth Gift.

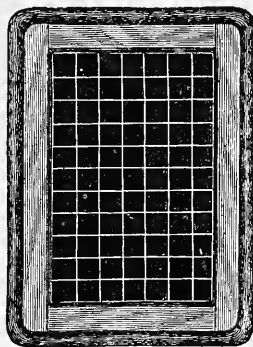
[The Gifts from Ten to Twenty, inclusive, are known as Occupation Material.]

Drawing Slates and Paper Ruled in Squares.

With drawing material prepared in this way, the child begins systematically to acquire and perfect his ideas of proportion, and to train the hand to draw correctly. The slates are used first, then the paper.

Noiseless Kindergarten Slates, ruled in squares, noiseless rim. Highest Paris award, 1878.

A, 5 x 7, ruled in squares,	- -	\$0.30
A, 6 x 9, " "	- -	.35
B, 5 x 7, " "	- -	.20
B, 6 x 9, " "	- -	.25



Noiseless slates, with wide rim, on which are geometric figures or diagrams for connecting class copying, 6 x 9, each, - - \$0.40

Paper, good quality, ruled two sides in squares (accurately) $\frac{1}{8}$ inch, $\frac{1}{6}$ inch, or $\frac{1}{4}$ inch, per quire, - - - - - \$0.40

Drawing Books, Ruled in Squares.

For Pupils.

Smooth Paper. 24 pages, $\frac{1}{6}$ inch or $\frac{1}{4}$ inch,	- -	\$0.15
Drawing Books. 24 pages, 7 x 8 $\frac{1}{2}$ inches, per dozen,	-	1.00

For Teachers.

Smooth Paper. 48 pages, interleaved with tissue paper,	
ruled $\frac{1}{8}$ inch, $\frac{1}{6}$ inch, or $\frac{1}{4}$ inch, each, - - -	\$0.40
Drawing Paper. 48 pages, interleaved with tissue paper,	
ruled $\frac{1}{8}$ inch, $\frac{1}{6}$ inch, or $\frac{1}{4}$ inch, each, - - -	.50

Eleventh Gift.

Perforating Paper. After the line comes, finally, the point. The Perforating Paper is ruled in $\frac{1}{4}$ inch squares, and the child is taught to prick with the Perforating Needles, at first, straight lines and figures with straight lines, and afterward, designs involving curved lines. The work, when accurately done, may be laid aside to be used in connection with the next gift. The use of this gift develops Neatness, Care, Accuracy in the use of the Hand, and continues the habit of Designing.

Package of 50 sheets, 11 x 8 $\frac{1}{2}$ inches, ruled on one side, each,	\$0.50
“ 25 sheets cardboard, 5 $\frac{1}{4}$ x 7 inches, - - -	.20
Perforating Cushions, for laying the paper on when at work, each,	.15
“ Needles, long or short handles, each, - - -	.05
“ “ “ “ per dozen, - - -	.50
Diagrams, - - - - -	.30

Albums for mounting—see list of prices elsewhere.

Twelfth Gift.

Embroidering Material. This gift follows, naturally, the last, the best of the perforated material being reserved for embroidery. The ruled paper and cardboard of the last gift may be obtained for this, or, if it is not desired to have the children perforate their own paper, it may be obtained already perforated.

Package of 25 sheets cardboard, 4 x 4 inches, ruled one side, $\frac{1}{4}$ inch, - - - - -	\$0.15
Package 4 x 4 inches, perforated, $\frac{1}{4}$ inch, - - - - -	.15
“ 8 x 8 “ ruled one side, $\frac{1}{4}$ inch, - - - - -	.25
“ Diagrams, - - - - -	.30

Albums for mounting—see price list elsewhere.

Thirteenth Gift.

Paper for Cutting. This gift consists of squares of paper, which the children are taught to fold in various patterns, and then cut, with scissors, into symmetrical figures, which may then be mounted on paper or in books, and retained as evidence of the child's progress.

Package containing 100 pieces 4 x 4 inch paper, assorted colors,	\$0.15
“ 30 sheets 9 x 9 inches, stout white paper for mounting, - - - - -	.30
Package containing 30 sheets 9 x 9 inches, Manila paper, for mounting, - - - - -	.20
Diagrams, - - - - -	.30

Albums for mounting—see list of prices elsewhere.

Fourteenth Gift.

Paper for Weaving. This gift consists of slitted mats and strips of variously colored paper, which are woven and interlaced so as to form patterns which may then be mounted on paper or in Albums. The mats are furnished in assorted colors, and the mounts should be of the suitable contrasting colors, or of gray.

N. B.—The boxes of Weaving Material put up by us contain, when square, a double quantity of mats and *no strips*, which are always cut from the mats. This is better done as used, thus preventing waste and enabling all the material to be used.

Weaving Material. We suggest to those ordering, that it will often not be possible for us to match colors, unless ordered in large quantities. We are constantly buying and cutting paper of the most brilliant colors to be found in the market, but our assortment is likely to vary from time to time. *We will send, on application, samples of the colors in stock at any time of the teacher's paper, mounted on a card.* From this card the colors may be ordered in any combination desired, but only in even packages of 24 mats (the equivalent of 12 mats and 12 strips).

Price per package of 24 mats, about 7 x 7 inches, slits $\frac{1}{8}$ inch
or $\frac{1}{16}$ inch, in paper box, - - - - - \$0.18

Put up in assorted colors of fine glazed paper, in packages of 24 mats (the equivalent of 12 mats and 12 strips):

Price per package of 24 mats, about 7 x 7 inches, in wrappers,	\$0.15
Slits, $\frac{1}{8}$ inch, assorted colors, - - - - -	.15
" $\frac{1}{16}$ " " - - - - -	.15
" $\frac{1}{4}$ " " - - - - -	.15
" $\frac{3}{8}$ " " - - - - -	.15
" $\frac{1}{2}$ " " - - - - -	.15
" alternating $\frac{1}{8}$ and $\frac{3}{8}$, assorted colors, - - - - -	.15

We also furnish oblong mats, about 5 x 7 inches, same price. We have on hand about 50 kinds of mats. In ordering, please specify exactly what is wanted.

Weaving Needles, steel (patent), each, - - - - -	\$0.10
" " " per dozen, - - - - -	1.00
Diagrams, - - - - -	.30

Albums for mounting the finished work—see price list elsewhere.

The **Fifteenth** and **Sixteenth Gifts** are included in the Eighth Gift, which see.

Paper for Intertwining. Paper strips of various colors, eight or ten inches long, to be folded lengthwise, and used to represent geometrical and fancy figures.

colors, each,	-	-	-	-	-	-	.	-	-	\$0.08
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" " pink " -08

Albums for mounting—see price list elsewhere.

Paper for Folding. This material consists of paper cut perfectly square, which may be subdivided into triangles or other forms, and folded into various shapes.

package, -	-	-	-	-	.	-	-	-	-	\$0.15
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"	"	"	glazed paper,20
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Albums for mounting—see price list elsewhere.

Peas Work. Peas are soaked in water for six or eight hours, and pieces of wire of various lengths are stuck into them, the peas forming the means of connecting the wires, and thus form the skeleton of geometrical figures and real objects. There is no more fascinating or useful occupation for children than this. Instead of the peas, cubes of cork are sometimes used. The cork cubes we furnish; the peas can be obtained anywhere.

Diagrams,	-	-	-	-	-	.	.	-	-	-	.30
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Modeling. Suitable clay, properly prepared, is kept for this purpose. Modeling wax is sometimes used by teachers. There are modeling knives and tools of various shapes, one or two of which will usually be sufficient.

[illegible]

Miscellaneous.

Albums for Mounting completed work in the Eleventh, Twelfth, Thirteenth, Fourteenth, Seventeenth and Eighteenth Gifts.

Albums, Gray Paper, 24 pp., 9 x 10 inches, - - - - \$0.20

" " 48 " " - - - - .30

" Assorted Colored Paper, 24 pp., 9 x 10 inches, - - .20

" " " 48 " " - - .30

Wrappers or Portfolios, 6 x 7 or 8 x 10 in., stiff Manilla, per doz., .60

Kindergarten Tables, hard wood, marked (accurately) in

inch squares, 20 x 36 inches, each, - - - - 4.00

Tables, 3 feet long, 16 inches wide, harp leg and folding, - - 5.00

" 2 " same style, - - - - 4.50

Other sizes to order.

Kindergarten Chairs, each, - - - - 1.00

BOOKS ON KINDERGARTNING.

DOUAI—Manual for the Kindergarten, - - - - \$1.00

KRAUS-BOELTE—Kindergarten Guide, No. 1, - - - - .35

" " " 2, - - - - .70

HOFFMAN—Kindergarten Toys, - - - - .20

HAILMAN—Kindergarten Culture, - - - - .75

KREIGE (M. H.)—The Child, - - - - 1.00

MANN & PEABODY—Kindergarten Guide, - - - - 1.25

WIEBE—Paradise of Childhood. In four parts, each, in paper, - .75

Complete, in paper, - - - - 2.50

Complete, cloth, - - - - 3.00

CRAFT—The Coming Man the Present Child, - - - - 1.50

MANN—Von Bulow's Reminiscences of Froebel, - - - - 1.50

Mother Play and Nursery Songs from Froebel, newly translated, 2.00

Also, many other Kindergarten works furnished to order.

Books for Instructing the Deaf and Dumb.

Elementary Lessons. By H. P. PEET, LL.D. Pp. 308. \$0.85.

Course of Instruction. Part III. By HARVEY P. PEET, LL.D. Fully Illustrated. Pp. 252, - - - - \$1.25

Containing a development of the verb; illustrations of idioms; lessons on the different periods of human life; natural history of animals, and a description of each month in the year.

Language Lessons. By ISAAC LEWIS PEET, LL.D. Script Type. Pp. 232, - - - - \$1.25

Designed to introduce young learners, deaf-mutes, and foreigners to a correct understanding and use of the English language.

Metric Apparatus for Schools.

For the Accommodation of Teachers, and to Save the Cost of Transportation from Boston, the educational society for introducing the metric system—the AMERICAN METRIC BUREAU—has established at our store a **Depository for the Exhibition and Sale of Metric Books, Charts, and Apparatus for Teaching.** All interested may obtain from us explanatory circulars, tables, and list of apparatus with descriptions, prices, and everything pertaining to the metric system, on the same terms as at the general office of the society in Boston.

This society has a **Sinking Fund of \$10,000**, loaned by friends of the system. This is applied to the manufacture of metric apparatus, to be sold at only enough advance on cost of material and labor to meet *necessary expenses*. The Trustees receive no compensation for their services, and employ no traveling agents. The expenses are, therefore, very small.

The most necessary articles for teaching, introducing, or using the metric system are sold at **one-half the Factory Prices**; others at wholesale prices, and a few (so controlled that the Bureau is not allowed to undersell) as low as they can be had anywhere. The following articles (the most called for) can be had at the Bureau, or at our store, for *one-half the regular prices* here printed.

In ordering, always give printed price, and send one-half the total amount of the bill, which will be receipted for as fully paid.

Meters. (Polished and graduated on four edges.) Maple meter stick, 33 cts.; brass tips, 40 cts.; pointer, each cm. and dm. marked, 32 cts.; school meter, best for exhibition, \$1.20.

Desk Rules. 30 cm., heavy, wide, polished maple, 20 cts.; brass-mounted, 35c.

School Rules. 30 cm., light maple, 10c.; boxwood, best, 15 cts.; printed, less accurate and durable, 4 cts. \$2.00 per hundred.

Pocket Rules. (Boxwood, graduated on four edges, brass-mounted.)

Four-fold. Meter, 80 cts.; best quality, arch joint, fine finish, \$1.40; broad, 33 mm wide, best, arch, etc., \$1.68; 40 cm., best size for pocket, 75-ct. form, 40 cts.; extra strong, generally chosen, 50 cts.; best quality, 70 cts.; with caliper, \$1.20; bound in brass, \$1.25.

Five-fold. (Five double decimeters jointed into a full meter.) Steel springs, \$1.06; without springs, 48 cts., 20 cts., and 16 cts.

Capacity Measures. The wood and copper measures are, like the rules, sold at half price. For the present the tin measures are offered at **one-third price.**

CAPACITY MEASURES.

	Factory price.	Wood.	Tin.	Copper.		Factory price.	Wood.	Tin.	Copper.
2	Centiliter, -	—	\$0.15	\$0.30	I	½ Dekaliter, -	\$0.60	\$1.50	\$3.00
½	Deciliter, -	—	.15	.30		" -	1.00	2.25	4.50
I	" -	\$0.20	.15	.30	Nest.	All 10 pieces, 2.95	6.15	12.30	
2	" -	.20	.15	.30	"	2 liter down			
½	Liter, -	.20	.30	.60		8 pieces, 1.35	2.40	4.80	
I	" -	.30	.45	.90	"	Liter down, 7			
2	" -	.45	.90	1.80		pieces, .90	1.50	3.00	

Weights. Fairbanks', brass, 13 pieces, with knobs, in polished block, K. to 1 g., \$8.65.

Scales. Iron, double platform, 2 g. upward, \$2.50; finer, with index, \$6.40.

Paper Meter-Yard. This is strongly recommended as the best known aid to the use of the Metric System. It may easily be carried in the vest pocket, and it answers most metric questions at sight, 20 cents.

Over fifty of the best metric publications at one-half price. Send for full descriptive list.

The prices below for sets are the reduced prices, some half, others wholesale, and *are not to be halved*.

Complete Sets of Apparatus. Without the actual weights and measures, a full set, everything needed for best teaching, 15 pieces, costs for the cheapest form, \$7.34; favorite form, \$8.75; best form, \$10.30. A still cheaper form with the solid instead of dissected liter block costs only \$4.04. For full descriptions see METRIC BULLETIN, pages 413-425.

Sets of Actual Measures. The most needed for the best practical teaching are given with prices for each quality. To reduce cost of the set omit from the end of the list in order. The prices in this list are not to be halved. A part are put down at half price, the rest are at wholesale prices, all at the lowest terms on which they are furnished by the Metric Bureau, by which the selection is made as the best. Having decided whether to buy the best, the regular, or the cheapest quality go down the list till the limit of expense is reached.

Weights and Measures.	No. Pieces.	Best.	Regular.	Cheapest.
Liter, kilo, and gram, - - - - -	3	\$2.60	\$1.23	\$0.45
Dek., decil., and centil., - - - - -	3	.80	.80	.60
Deka., and hektog. weights, - - - - -	2	1.15	.58	.28
Scale (if school has none), - - - - -	1	3.60	1.60	1.25
Ten-meter tape, in case, - - - - -	1	2.40	.66	.40
9 weights, completing 2 K. set, - - - - -	9	5.35	2.68	1.36
Liter, decil., and centil., market form, - - - - -	3	.75	.30	.25
Meters, 1, 2, 4, 5, and 10-fold, - - - - -	5	2.26	1.64	1.10
Tailors' tape, 1½ meter (no case), - - - - -	1	.25	.09	.03
2 and 5 cl., 2 and 5 dl. 2 l., completing standard capacity set, - - - - -	5	1.65	.55	.55
Centigrade thermometer, - - - - -	1	1.17	.75	.25
Half-meters, 1, 2, 4, and 10-fold, - - - - -	4	1.15	1.05	.91
20, 30 D., 30 S., and 40 cm. rules, - - - - -	4	.74	.53	.45
Double meter, 10-fold, spring rod, - - - - -	1	1.06	1.06	1.06
6 market measures, completing set, - - - - -	6	1.95	.85	.85
Total, - - - - -	49	\$26.88	\$14.37	\$9.79

As the society does this work from **educational, not commercial** motives, and without profit above expenses; and as we have taken this **Depository** for the accommodation of our patrons and educators generally, and without charge for rent or labor, it is necessary to observe the Bureau rules as to *terms of sale*: **Cash on Delivery in our Store.** *Postage, express, packing-cases, transportation, incidentals, and risk must be borne by the buyer.*

A Full Descriptive Catalogue Mailed on Application.

Minerals and Rocks.

We have several collections of Rocks and Minerals for beginners and advanced pupils. Prof. Dana says: "There is no studying Mineralogy or Geology without a collection of this kind. Every academy in New York, as well as in the other States, should have one."

Set No. 1 comprises 25 Rocks and Minerals, viz.: Coarse Granite, Fine Granite, Graphic Granite, Syenite, Gneiss, Quartz, Feldspar, Mica, Hornblende, Trap, Lava, Sandstone, Conglomerate, Calcite, Granular Limestone, Compact Limestone, Hydraulic Limestone, Fossiliferous Limestone, Serpentine, Talc, Steatite, Gypsum, Graphite, Barytes, and Sulphur. **Price**, in neat box, - - - - **\$2.50**

Set No. 2 consists of 25 Metals, as follows: Gold, Silver, Cinnabar, Native Copper, Copper Pyrites, Malachite, Native Iron, Iron Pyrites, Arsenical Iron, Hematite, Limonite, Magnetite, Carbonate of Iron, Chromic Iron, Stream Tin, Galena, Zinc Blende, Zincite, Willemite, Calamine, Bismuth, Antimony, Nickel, Pyrolusite, and Allanite.

Price, in neat box, - - - - **\$3.00**

We will supply both sets when ordered at the same time for \$5.00.

Student's Elementary Collection of Minerals and Rocks. 50 specimens. In pasteboard box, \$12.00; in black walnut case, \$15.00.

Advanced Student's Collection in Mineralogy. Arranged according to Dana's Manual. 100 specimens. In pasteboard case, \$25.00; in black walnut case, \$30.00.

The same chemically arranged according to the fifth edition of Prof. Dana's Mineralogy. Same styles and prices.

Advanced Student's Collection in Geology. 100 specimens. (According to the latest edition of Prof. Dana's Geology.) In pasteboard box, \$25.00; in black walnut case, \$30.00.

The Advanced Student's Collection in Mineralogy, with the Advanced Student's Collection in Geology. 200 specimens. In pasteboard cases, \$50.00; in black walnut cases, \$55.00.

Colleges, Academies, Schools and Amateurs supplied with Cabinets or single specimens. Also with **Fossils** and **Shells**.

Scales of hardness, specimens for blowpipe and chemical analysis supplied to order.

Geological Implements supplied to order.

The above collections sent by express, securely packed, to any part of the country. Purchaser to pay express charges.

Those who are about to arrange collections of Geological specimens should consult us before doing so as we have frequent opportunities to dispose of valuable collections at very low prices.

The MacKinnon Pen.

Patented March 21, 1876, April 23, 1878, and January 21, 1879.

The MacKinnon Pen is an entirely new writing instrument for the desk or pocket, combining the convenience of the lead pencil and the permanency of pen and ink. It is **neat** and **clean**, and can be carried in

the pocket **always ready for use**. One filling lasts a week or more, according to the extent of use, and can easily be replenished.

This pen supplies the want long felt for an ink writing instrument that may be used with the facility of a lead pencil, on all kinds of paper, and for all memorandum, manuscript or letter writing, etc., and in fact for all general writing where a lead pencil or pen is used. It is constructed upon an entirely new and scientific principle, and writes without shading, always producing the same breadth of line, whether the hand is carried lightly or with pressure; mere contact with paper being all that is necessary.

Where speed and legibility are desired it is far preferable to the ordinary pen, as the necessity of constantly dipping for ink is avoided, and the smoothness and shape of the point admit of a free passage over the paper without danger of catching, leaving a clear uniform line.

As an office ruling pen it surpasses everything else, as blots are rendered impossible.

For a pocket pen the perfect state of completeness is arrived at, as the pen filled with ink can be made perfectly air tight and instantly ready for use.

PRICES.

No. 1.	Short, plain case,	-	-	-	-	-	-	\$3.50
" 2.	" chased case,	-	-	-	-	-	-	4.00
" 3.	Long, plain case,	-	-	-	-	-	-	4.00
" 4.	" chased case,	-	-	-	-	-	-	4.50



SECTIONAL VIEW.

1. Air Cap. 2. Holder. 3. Ink Chamber. 4. Air Tube. 5. Air Hole. 6. Ink Joint. 7. Valve. 8. Swivel Needle. 9. Writing Point.



CLOSED.

Pure Rubber Bands.

Owing to the great variety of uses for which these articles are intended, they should be made of rubber that will be elastic and durable. These goods are made of selected **Pure Gum stock**, and finished in a careful manner.

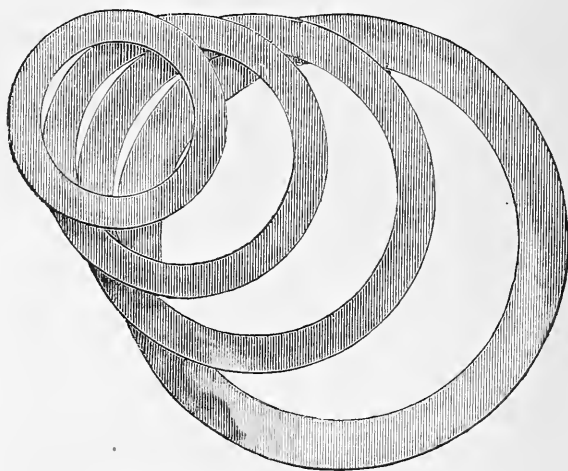
They will keep in any climate, and are warranted **Pure Rubber.**



Rings.

Nos. 1 to 20, and 50, according to size and weight.

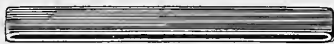
Pure Gum Rings.



Nos. 42 to 45, according to size.

No.	Size.	Per	gt. gro.	No.	Size.	Per	gt. gro.
1.	$\frac{3}{4}$ inches long, Ex. heavy,	\$2.00		11.	$1\frac{1}{2}$ inches long,	-	\$2.25
2.	1	"	2.50	12.	$1\frac{5}{8}$	"	2.50
3.	$1\frac{1}{4}$	"	3.00	13.	$1\frac{3}{4}$	"	2.75
4.	$1\frac{1}{2}$	"	3.50	14.	2	"	3.00
5.	$1\frac{3}{4}$	"	4.00	15.	$2\frac{1}{4}$	"	3.25
6.	2	"	4.50	16.	$2\frac{1}{2}$	"	3.50
7.	$2\frac{1}{4}$	"	5.00	17.	$2\frac{3}{4}$	"	3.75
8.	$\frac{7}{8}$	-	1.75	18.	3	"	4.00
9.	1	-	1.90	19.	$3\frac{1}{2}$	"	4.50
10.	$1\frac{1}{4}$	-	2.00	20.	$1\frac{1}{2}$	"	3.00

Pure Rubber Bands.



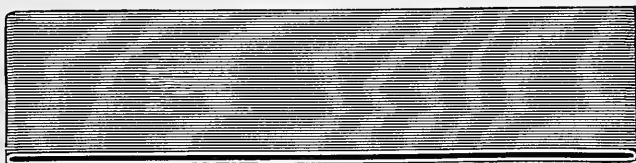
ONE-EIGHTH INCH.



ONE-QUARTER INCH.



ONE-HALF INCH.



THREE-QUARTER INCH.

No.		Per gross.	No.		Per gross.
42.	$\frac{3}{4}$ in. diam., per gro.,	\$1.00	oo.	$\frac{1}{2}$ -inch, $2\frac{1}{2}$ inches long,	\$2.25
43.	$1\frac{1}{8}$ " " "	1.25	ooo.	$\frac{1}{2}$ " 3 " "	2.50
44.	$1\frac{1}{2}$ " " "	1.50	oooo.	$\frac{1}{2}$ " $3\frac{1}{2}$ " "	2.75
45.	$1\frac{7}{8}$ " " "	2.00	o.	$\frac{3}{4}$ " 2 " "	2.50
50.	1 inch long, - -	.40	oo.	$\frac{3}{4}$ " $2\frac{1}{2}$ " "	3.00
51.	$\frac{1}{8}$ -inch, 1 inch long,	.40	ooo.	$\frac{3}{4}$ " 3 " "	3.50
27.	$\frac{1}{8}$ " 1 " "	.50	oooo.	$\frac{3}{4}$ " $3\frac{1}{2}$ " "	4.00
28.	$\frac{1}{8}$ " $1\frac{1}{4}$ " "	.60	Light.	$\frac{1}{2}$ " 3 " "	1.75
29.	$\frac{1}{8}$ " $1\frac{1}{2}$ " "	.65	"	$\frac{3}{4}$ " $3\frac{1}{4}$ " "	2.25
30.	$\frac{1}{8}$ " 2 " "	.70	"	1 " $3\frac{1}{2}$ " "	3.25
31.	$\frac{1}{8}$ " $2\frac{1}{2}$ " "	.80	"	$1\frac{1}{2}$ " $3\frac{3}{4}$ " "	4.75
32.	$\frac{1}{8}$ " 3 " "	.90	Assorted Widths, No. o, - 1.70		
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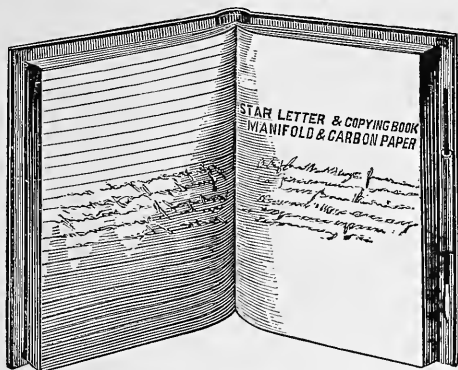
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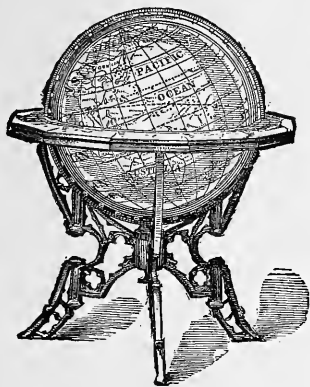
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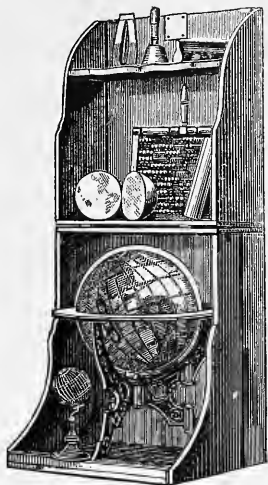
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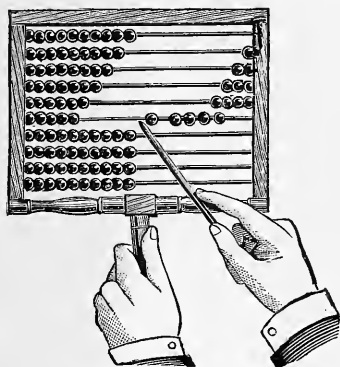


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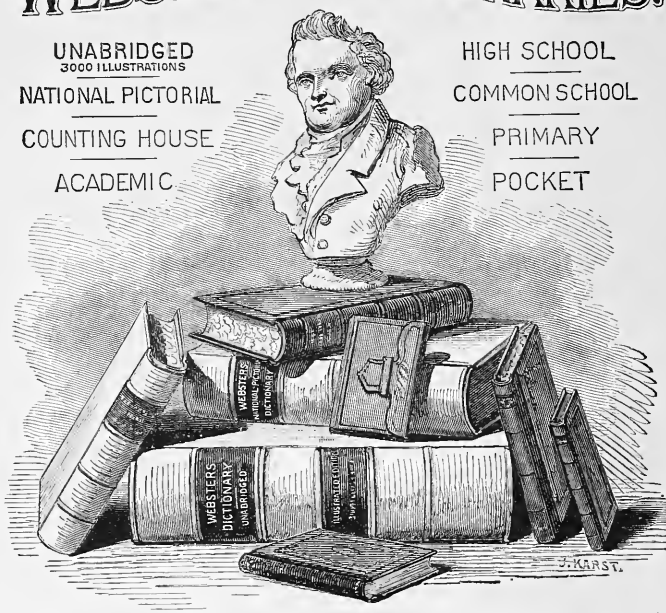
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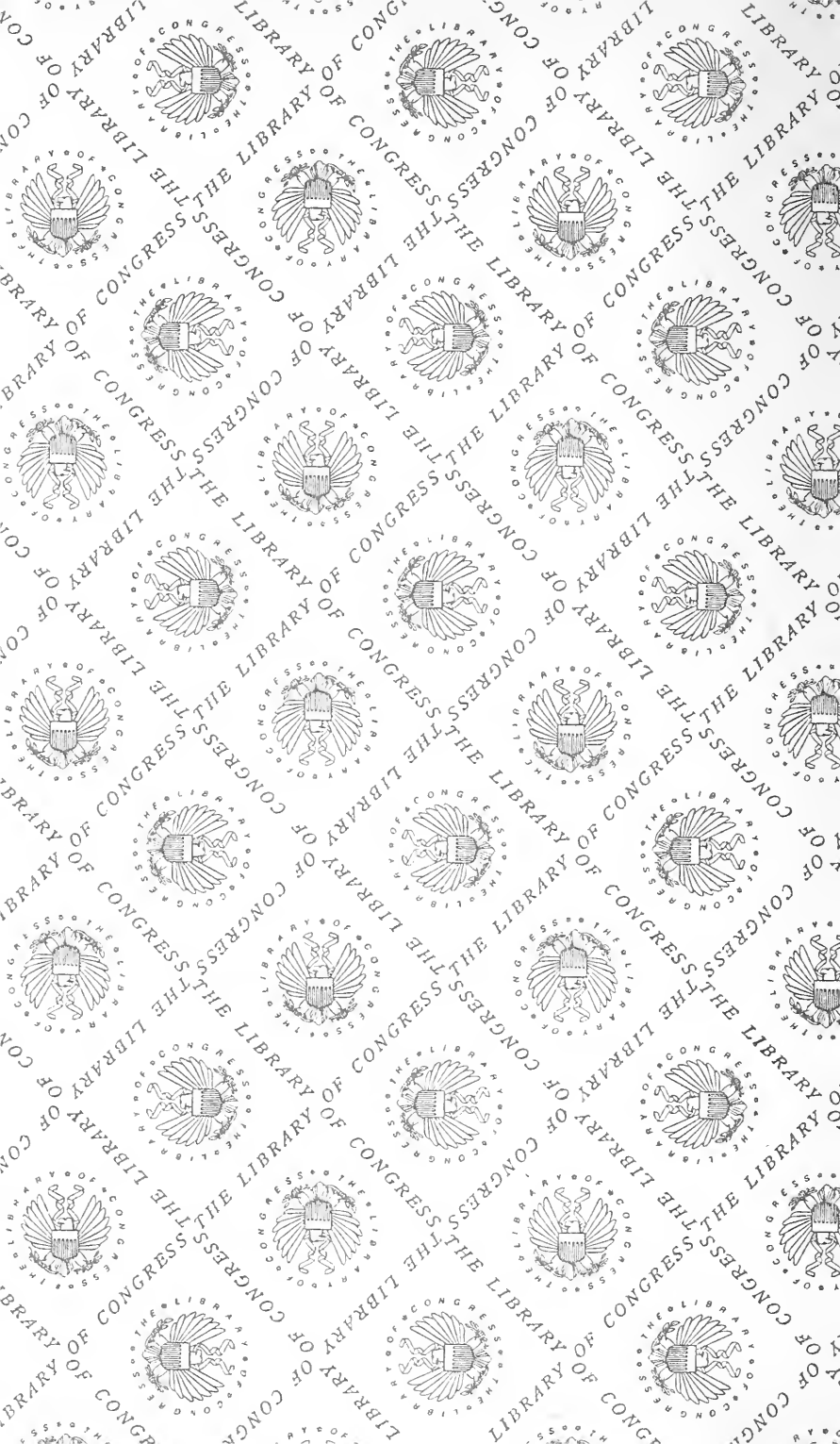
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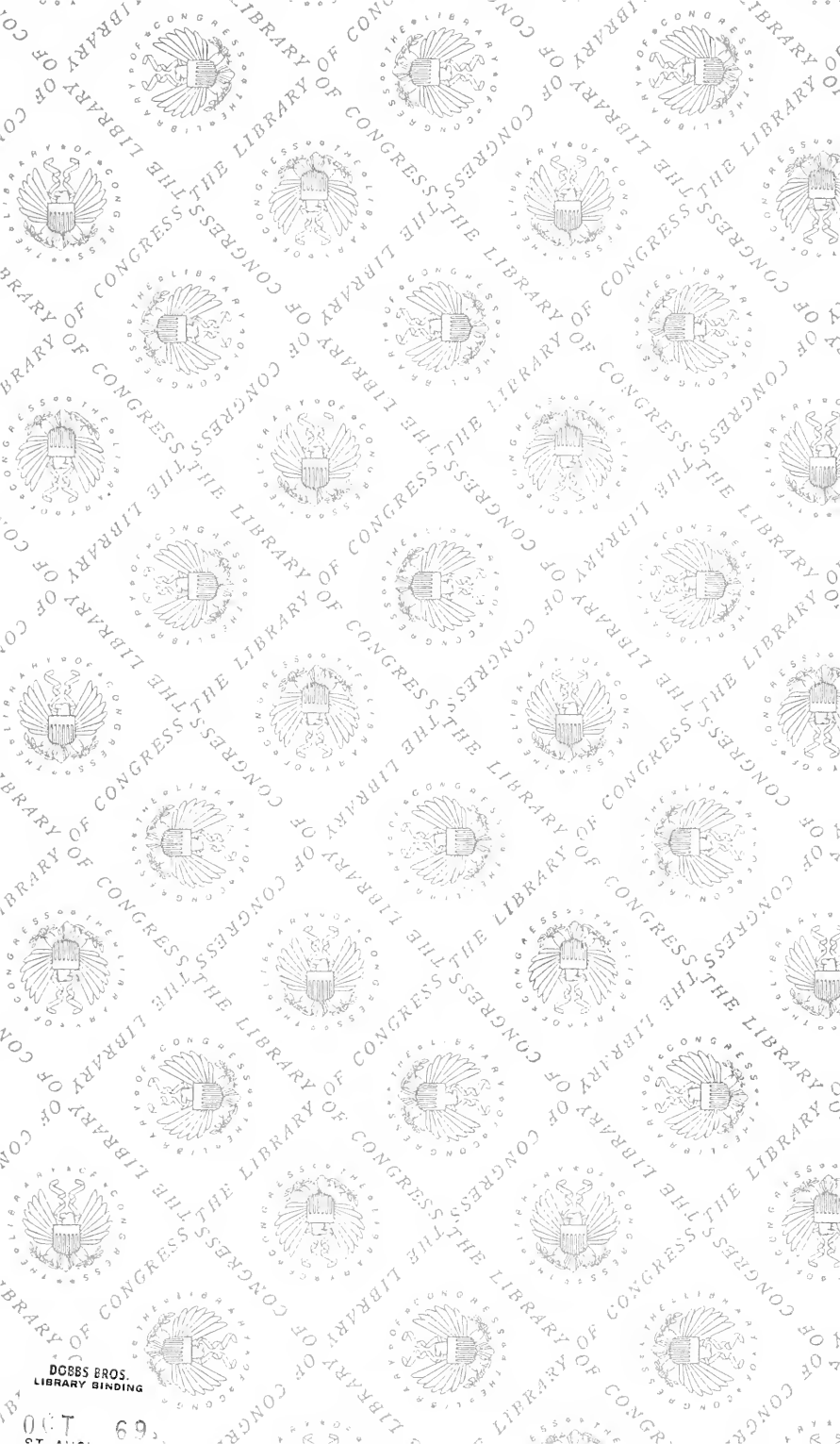
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